



CALL NO. 409

CONTRACT ID. 092031

KENTON COUNTY

FED/STATE PROJECT NUMBER 059GR09P013-FD05

DESCRIPTION KY 1072 AND KY 16 AND KY 1930 IN KENTON COUNTY

WORK TYPE ASPHALT RESURFACING

PRIMARY COMPLETION DATE 11/15/2009

LETTING DATE: March 27, 2009

Sealed Bids will be received in the Division of Construction Procurement and/or the Auditorium located on the 1st floor of the Transportation Cabinet Office Building until 10:00 AM EASTERN DAYLIGHT TIME March 27, 2009. Bids will be publicly opened and read at 10:00 AM EASTERN DAYLIGHT TIME.

DEFERRED PAYMENT

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

(Check guaranty submitted: Cashier's Check ☐ Certified Check ☐ Bid Bond ☐)

BID BONDS WHEN SUBMITTED WILL BE RETAINED WITH THE PROPOSAL

DBE General Plan Included ☐

BID ☐

PROPOSAL ISSUED TO: _____

SPECIMEN ☐

Address

City

State

Zip

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PART I

SCOPE OF WORK

CONTRACT ID - 092031

ADMINISTRATIVE DISTRICT - 06

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - KENTON
059GR09P013-FD05

KY 1072 AND KY 16 AND KY 1930 IN KENTON COUNTY

COUNTY - KENTON
FD05 059 0016 009-014

PES - MP05900160901

TAYLOR MILL ROAD (KY 16) FROM KY 1501 (MP 9.541) EXTENDING NORTHERLY TO OLD TAYLOR MILL ROAD (MP 13.391), A DISTANCE OF 3.85 MILES. ASPHALT RESURFACING.

GEOGRAPHIC COORDINATES LATITUDE 38^59'58" LONGITUDE 84^29'37"

AVERAGE DAILY TRAFFIC - 20700

AVERAGE MAINLINE WIDTH - 42.0 FEET

COUNTY - KENTON
FD05 059 1072 002-006

PES - MP05910720901

SLEEPY HOLLOW (KY 1072) FROM US 25 (MP 2.854) EXTENDING NORTHERLY TO KY 8 (MP 5.019), A DISTANCE OF 2.17 MILES. ASPHALT RESURFACING.

GEOGRAPHIC COORDINATES LATITUDE 39^04'35" LONGITUDE 84^32'35"

AVERAGE DAILY TRAFFIC - 9310

AVERAGE MAINLINE WIDTH - 36.0 FEET

COUNTY - KENTON
FD05 059 1930 000-004

PES - MP05919300901

WHITES ROAD-LOCUST PIKE (KY 1930) FROM KY 177 (MP 0.000) EXTENDING NORTHERLY TO FEISER ROAD (MP 3.767), A DISTANCE OF 3.77 MILES. ASPHALT RESURFACING.

GEOGRAPHIC COORDINATES LATITUDE 38^57'35" LONGITUDE 84^27'12"

AVERAGE DAILY TRAFFIC - 571

AVERAGE MAINLINE WIDTH - 20.0 FEET

COMPLETION DATE(S):

COMPLETION DATE - November 15, 2009

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/contract)

The Bidder must download the bid file located on the web site to prepare a bid packet for submission to the Department. The bidder must include the completed bid packet printed from the Program along with the disk created by said program.

JOINT VENTURE BIDDING

Joint Venture bidding is permissible. However, both companies MUST purchase a bidding proposal. Either proposal may be submitted but must contain the company names and signatures of both parties where required. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

01/01/2009

DEFERRED PAYMENT

The successful bidder on this project may request a work order with an effective date prior to June 15, 2009. The request must be in writing to the Department. A work order issued at the request of the Contractor will be with the distinct understanding that payment for any work performed estimates may be delayed until July 15, 2009. A work order will be issued June 15, 2009, for this project unless the bidder requests an earlier work date.

SURFACING AREAS (KY 1072)

Mainline surfacing width is estimated to vary 22-36 feet.

Total mainline area to be surfaced is estimated to be 33,433 square yards.

Shoulder width is estimated to be 1.5 feet on each side.

Total shoulder area to be surfaced is estimated to be 2,937 square yards.

SURFACING AREAS (KY 16)

Mainline surfacing width is estimated to vary 22-42 feet.

Total mainline area to be surfaced is estimated to be 55,950 square yards.

Shoulder width is estimated to vary 1-1.5 feet on each side.

Total shoulder area to be surfaced is estimated to be 6,717 square yards.

SURFACING AREAS (KY 1930)

Mainline surfacing width is estimated to vary 19-20 feet.

Total mainline area to be surfaced is estimated to be 47,845 square yards.

Shoulder width is estimated to be 0 feet on each side.

Total shoulder area to be surfaced is estimated to be 0 square yards.

ASPHALT MIXTURE

The rate of application for all asphalt mixtures shall be estimated at 110 lbs/sy per inch of depth, unless otherwise noted.

INCIDENTAL SURFACING

The quantities established in the proposal include estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, and road and street approaches. These items are to be paved to the limits as shown on Standard Drawing RPM 110 or to the limits as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, the paving of the crossroads shall be to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. These areas are to be surfaced or resurfaced as directed by the Engineer and no direct payment will be allowed for placing and compacting.

FUEL AND ASPHALT PAY ADJUSTMENT

These contract items Lot Pay Adjustment, Asphalt Adjustment and Fuel Adjustment, are for possible future payments. Additional monies may need to be setup with an additional change order if existing contract amount is insufficient to pay all items on the contract. Unit price is \$1.00. Quantity will be actual adjustment after work is completed.

OPTION A (KY 1072 & KY 16)

The Contractor is advised that the compaction of asphalt mixtures furnished for driving lanes and ramps, at 25mm (1 inch) or greater, on this project will be accepted according to OPTION A in accordance with Section 402 and Section 403 of the current Standard Specification. Joint cores as described in subsection 402.03.02 are required for surface mixtures only. The compaction of all other asphalt mixtures will be accepted by OPTION B.

OPTION B (KY 1930)

The Contractor is advised that the compaction of asphalt mixtures furnished to this project will be accepted by OPTION B in accordance with Section 402 and Section 403 of the current Standard Specification.

SPECIAL NOTE FOR PAVEMENT WEDGE AND SHOULDER

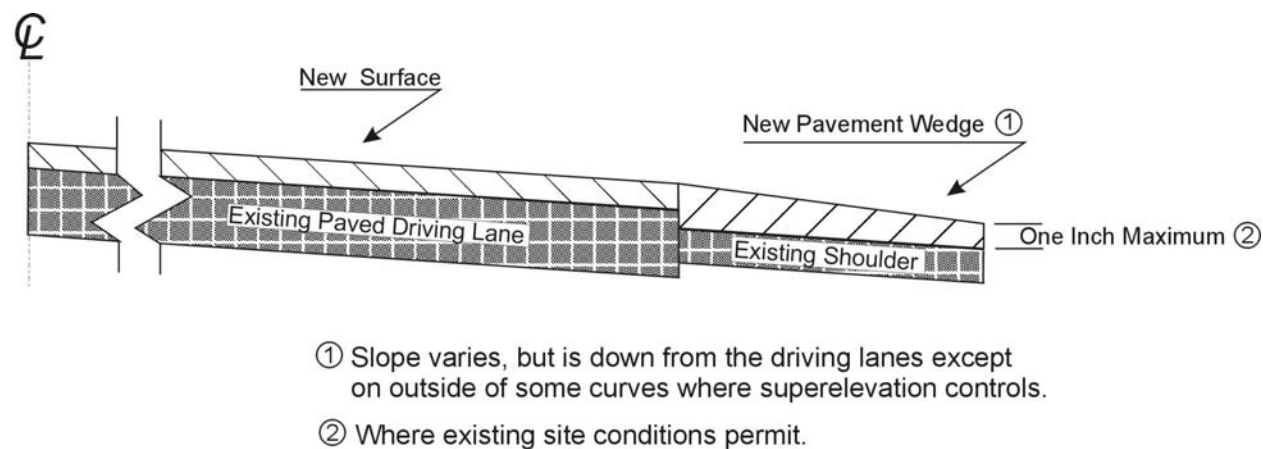
1.0 MATERIALS. Provide an Asphalt Mixture for Pavement Wedge conforming to Section 407 of the Standard Specifications or an Asphalt Surface Mixture conforming to Section 403 of the Standard Specifications, as applicable to the project, for the pavement wedge.

2.0 CONSTRUCTION. Place the Asphalt Mixture for Pavement Wedge or Asphalt Surface Mixture as a separate operation from the driving lane. Prime the existing shoulder with tack material as the Engineer directs before placing the wedge. Construct according to Section 407.03 and 403.03 of the Standard Specifications, as applicable.

When the Engineer deems it appropriate to pave both the driving lane and the adjoining wedge monolithically, equip the paver with a modified screed. Provide a screed that extends the full width of the wedge being placed and is tapered to produce a wedge.

The wedge may vary in thickness at the edge of the driving lanes. Limit the outside edge thickness of the new paving limits on the wedge to one inch where existing site conditions permit. If an Asphalt Surface Mixture is furnished for the pavement wedge, texture according to Section 403.03.08.

The following sketch is primarily for the computation of quantities; however, the wedge will result in a similar cross-section where sufficient width exists. Do not construct a shoulder for placing the wedge unless specified elsewhere in the Contract.



3.0 MEASUREMENT. The Department will measure Asphalt Mixture for Pavement Wedge or Asphalt Surface Mixture placed as the pavement wedge according to Section 407.

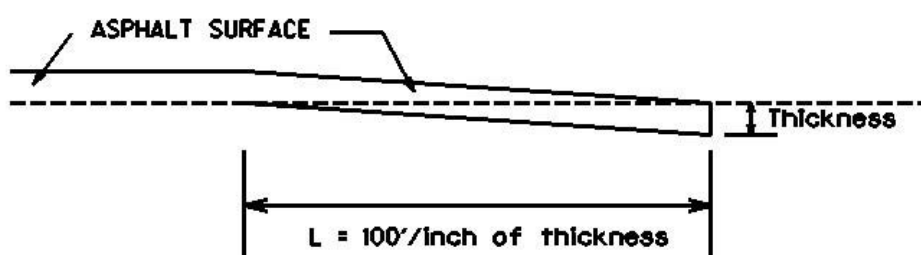
4.0 PAYMENT. The Department will make payment for the completed and accepted quantities of Asphalt Surface Mixtures on pavement wedges according to Section 402 of the Standard Specifications. The Department will make payment for the completed and accepted quantities of Asphalt Mixture for Pavement Wedge according to Section 407 of the Standard Specifications.

01/01/2009

**SPECIAL NOTE FOR EDGE KEY
(KY 1072 & KY 16)**

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Cut out the existing asphalt surface to the required depth and width shown on the drawing. Heel new surface into the existing surface. The Department will pay for this work at the contract unit price per ton for "Asphalt Pavement Milling and Texturing", which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

EDGE KEY



Thickness = 1.25 Inches

L = 125 LF

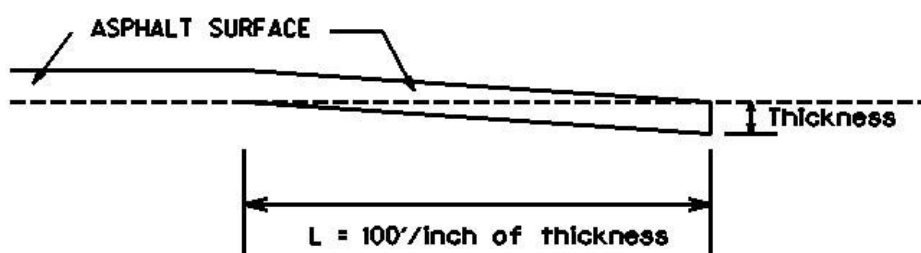
L= Length of Edge Key

1-3315 edgekeypaidbyton
01/01/2009

SPECIAL NOTE FOR EDGE KEY (KY 1930)

Construct Edge Keys at the beginning of project, end of project, at railroad crossings, and at ramps, as applicable. Cut out the existing asphalt surface to the required depth and width shown on the drawing. Heel new surface into the existing surface. The Department will pay for this work at the contract unit price per ton for "Asphalt Pavement Milling and Texturing", which shall be full compensation for all labor, materials, equipment, and incidentals for removal and disposal of the existing asphalt surface required to construct the edge key.

EDGE KEY



Thickness = 1.00 Inches

L = 100 LF

L= Length of Edge Key

1-3315 edgekeypaidbyton
01/01/2009

SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within **two weeks** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, liquidated damages will be assessed at the rate prescribed by Section 108.09 of the current Standard Specifications until such time as paving operations are begun.

Contrary to Section 408 of the current Standard Specifications, the material obtained from the milling operations shall become the property of the Department. Deliver this material to the nearest State Maintenance facility in the County where the project is located. The Contractor, at his option, may elect to keep this material at an agreed cost of \$10.00 per ton. The cost to the Contractor for this material will be deducted from money due on the Contract.

Notice to Contractor

Transfer of millings to the state maintenance facility is considered a part of the construction project, therefore truck operators are subject to receiving prevailing wages.

SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING

Begin paving operations within **48 hours** of commencement of the milling operation. Continue paving operations continuously until completed. If paving operations are not begun within this time period, liquidated damages will be assessed at the rate prescribed by Section 108.09 of the current Standard Specifications until such time as paving operations are begun.

Contrary to Section 408 of the current Standard Specifications, the material obtained from the milling operations shall become the property of the Department. Deliver this material to the nearest State Maintenance facility in the County where the project is located unless otherwise stated in the contract. The Contractor, at his option, may elect to keep this material at an agreed cost of \$10.00 per ton. The cost to the Contractor for this material will be deducted from money due on the Contract.

Notice to Contractor

Transfer of millings to the state maintenance facility is considered a part of the construction project, therefore truck operators are subject to receiving prevailing wages.

SPECIAL NOTE FOR TYPICAL SECTION DIMENSIONS

The dimensions shown on the typical sections for pavement and shoulder widths and thickness' are nominal or typical dimensions. The actual dimensions to be constructed may be varied to fit existing conditions as directed or approved by the Engineer. It is not intended that existing pavement or shoulders be widened unless specified elsewhere in the Proposal.

1-3725 typical section
01/01/2009

SPECIAL NOTE FOR SIDEWALK RAMPS

Construct sidewalk ramps in accordance with Std. Drawings RPM-160, RPM-170, RPM-172, Special Note 10M Detectable warnings for sidewalk ramps, and the current Specifications, unless otherwise stated in the contract.

Except as required by the work do not disturb drainage pipe, catch basins, and other appurtenances and installations. Restore any features damaged by sidewalk ramp construction in like kind materials and design at no additional cost to the Department.

4 Inch Conc. Sidewalk. Payment at the Contract unit price shall be full compensation for all labor, materials, equipment, and incidentals required for removal, disposal of existing curb, gutter, excavation, embankment, construction of the sidewalk ramps, constructing detectable warnings, reconstruction of the adjacent curb and/or sidewalk as necessary to install the sidewalk ramps, and restoration of disturbed features in accordance with these notes or as directed by the Engineer.

1-3791 sidewalkrampspayassy
01/01/2009

TRAFFIC CONTROL PLAN

TRAFFIC CONTROL GENERAL

Except as provided herein, traffic shall be maintained in accordance with the current Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

PROJECT PHASING & CONSTRUCTION PROCEDURES

At the discretion of the Engineer, days and hours may be specified when lane closures will not be allowed.

The Contractor may maintain alternating one way traffic during construction. The clear lane width shall be 11 Feet on KY 1072 and KY 16 and 9 Feet on KY 1930. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, the Contractor shall make provisions for the passage of the bus as quickly as possible.

LANE CLOSURES

Do not leave lane closures in place during non-working hours.

SIGNS

Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic.

BARRICADES

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01. Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04.

TRAFFIC LOOP INSTALLATION

All items required for lane closures related to this item of work shall be considered incidental to bid item "Maintain and Control Traffic". Install Traffic signal loops after area has been milled and prior to the asphalt paving. The Contractor shall coordinate the placement of the traffic loops with the Traffic Engineer.

THERMOPLASTIC INTERSECTION MARKING

All items required for lane closures related to this item of work shall be considered incidental to bid item "Maintain and Control Traffic". The Contractor shall be required to locate, document, and replace the markings that are existing in the field prior to the completion of project or as directed by Engineer.

CHANGEABLE MESSAGE SIGNS

Provide changeable message signs in advance of and within the project at locations to be determined by the Engineer. If work is in progress concurrently in both directions or if more than one lane closure is in place in the same direction of travel, provide additional changeable message signs as directed by the Engineer. Place changeable message signs one mile in advance of the anticipated queue at each lane closure. As the actual queue lengthens and/or shortens relocate or provide additional changeable message signs so that traffic has warning of slowed or stopped traffic at least one mile but not more than two miles before reaching the end of the actual queue. The locations designated may vary as the work progresses. The messages required to be provided shall be designated by the Engineer. In the event of damage or mechanical/electrical failure, the Contractor shall repair or replace the Changeable Message Sign within 24 hours. The Department will measure for payment the maximum number of changeable message signs in concurrent use at the same time on a single day on all sections of the contract. Individual changeable message signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged changeable message signs directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment.

ARROW PANEL

Use arrow panels as shown on the Standard Drawings or as directed by the Engineer. The Department will measure for payment the maximum number of arrow panels in concurrent use at the same time on a single day on all sections of the contract. Individual arrow panels will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged arrow panels directed by the Engineer to be replaced due to poor condition or readability will not be measured for payment. Arrow panels will remain the property of the Contractor after construction is complete.

PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½". Warning signs (MUTCD W8-9 or W8-9A, or W8-11) shall be placed in advance of and at 1500 foot intervals throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between newly surfaced pavement and the existing pavement areas that traffic may cross shall be wedged with asphalt mixture for leveling and wedging. Remove wedges prior to placement of the final surface course.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2" - No protection required.

2" to 4" - Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours. Wedge with asphalt mixture for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

POLICY FOR THE USE AND PLACEMENT OF CHANGEABLE MESSAGE SIGNS

The following policy is based upon current Changeable Message Signs (CMS) standards and practice from many sources, including the Federal Highway Administration (FHWA), other state Departments of Transportation, and Traffic Safety Associations. It is understood that each CMS installation or use requires individual consideration due to the specific location or purpose. However, there will be elements that are constant in nearly all applications. Accordingly these recommended guidelines bring a level of uniformity, while still being open to regional experience and engineering judgement.

Application

The primary purpose of CMS is to advise the driver of unexpected traffic and routing situations. Examples of applications where CMS can be effective include:

- ◆ Closures (road, lane, bridge, ramp, shoulder, interstate)
- ◆ Changes in alignment or surface conditions
- ◆ Significant delays, congestion
- ◆ Construction / maintenance activities (delays, future activities)
- ◆ Detours / alternate routes
- ◆ Special events with traffic and safety implications
- ◆ Crash / incidents
- ◆ Vehicle restrictions (width, height, weight, flammable)
- ◆ Advance notice of new traffic control device
- ◆ Real-time traffic conditions (must be kept up-to-date)
- ◆ Weather/driving conditions, environmental conditions, Roadway Weather Information Systems
- ◆ *Public Service Announcements that improve highway safety
- ◆ Emergency situations
- ◆ Referral to Highway Advisory Radio (if available)
- ◆ Messages as approved by the State Highway Engineer's Office

* Use the CMS for special campaigns that will have a specified beginning and ending date. The CMS should not be used for more than three weeks with any special campaign.

CMS should not be used for:

- ◆ Replacement of static signs (e.g. road work ahead), regulatory signs (e.g. speed limits), pavement markings, standard traffic control devices, conventional warning or guide signs
- ◆ Replacement of lighted arrow board
- ◆ Advertising* (*Don't advertise the event unless clarifying "action" to be taken by driver - e.g. Speedway traffic next exit)
- ◆ Generic messages
- ◆ Test messages (portable signs only)
- ◆ Describe recurrent congestion (e.g. rush hour)
- ◆ Public service announcements (not traffic related)

Changeable Message Sign Policy

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Messages

Basic principles that are important to providing proper messages and insuring the proper operation of a CMS are:

- ◆ Visible for at least ½ mile under ideal daytime and nighttime conditions
- ◆ Legible from all lanes a minimum of 650 feet
- ◆ Entire message readable twice while traveling at the posted speed
- ◆ No more than two message panels should be used (Three panels may be used on roadways where vehicles are traveling less than 45 mph). A panel is the message that fits on the face of the sign without flipping or scrolling.
- ◆ Each panel should convey a single thought; short and concise
- ◆ Do not use two unrelated panels on a sign
- ◆ Do not use the sign for two unrelated messages
- ◆ Should not scroll text horizontally or vertically
- ◆ Should not contain both the words *left* and *right*
- ◆ Use standardized abbreviations and messages
- ◆ Should be accurate and timely
- ◆ Avoid filler/unnecessary words and periods (hazardous, a, an, the)
- ◆ Avoid using local names or landmarks
- ◆ Avoid use of speed limits
- ◆ Use words (not numbers) for dates

Placement

Placement of the CMS is important to insure that the sign is visible to the driver and provides ample time to take any necessary action. Some of the following principles may only be applicable to controlled access roadways. The basic principles of placement for a CMS are:

- ◆ When 2 signs are needed, place on same side of roadway and at least 1,000 feet apart
- ◆ Place behind semi-rigid/rigid protection (guardrail, barrier) or outside of the clear zone
- ◆ Place 1,000 feet in advance of work zone; at least one mile ahead of decision point
- ◆ Normally place on right side of roadway, but should be place closest to affected lane so either side is acceptable
- ◆ Signs should not be dual mounted (one on each side of roadway facing same direction)
- ◆ Point trailer hitch downstream
- ◆ Secure to immovable object to prevent thief (if necessary)
- ◆ Do not place in sags or just beyond crests
- ◆ Check for reflection of sun to prevent the blinding of motorists
- ◆ Should be turned ~3° outward from perpendicular to the edge of pavement
- ◆ Bottom of sign should be 7 feet above the elevation of edge of roadway
- ◆ Should be removed when not in use

Changeable Message Sign Policy
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STANDARD ABBREVIATIONS

The following is a list of standard abbreviations to be used on CMS.

<u>Word</u>	<u>Abbrev.</u>	<u>Example</u>
Access	ACCS	ACCIDENT AHEAD/USE ACCS RD NEXT RIGHT
Alternate	ALT	ACCIDENT AHEAD/USE ALT RTE NEXT RIGHT
Avenue	AVE	FIFTH AVE CLOSED/DETOUR NEXT LEFT
Blocked	BLKD	FIFTH AVE BLKD/MERGE LEFT
Boulevard	BLVD	MAIN BLVD CLOSED/USE ALT RTE
Bridge	BRDG	SMITH BRDG CLOSED/USE ALT RTE
Cardinal Directions	N, E, S, W	N I75 CLOSED/ DETOUR EXIT 30
Center	CNTR	CNTR LANE CLOSED/MERGE LEFT
Commercial	COMM	OVRSZ COMM VEH/USE I275
Condition	COND	ICY COND POSSIBLE
Congested	CONG	HVY CONG NEXT 3MI
Construction	CONST	CONST WORK AHEAD/EXPECT DELAYS
Downtown	DWNTN	DWNTN TRAF USE EX 40
Eastbound	E-BND	E-BND I64 CLOSED/DETOUR EXIT 20
Emergency	EMER	EMER VEH AHEAD/PREPARE TO STOP
Entrance, Enter	ENT	TRUCK ENT NEXT RIGHT
Exit	EX, EXT	DWNTN TRAF USE EX 40
Expressway	EXPWY	WTRSN EXPWY CLOSED/DETOUR EXIT 10
Freeway	FRWY, FWY	GN SNYDR FWY CLOSED/DETOUR EXIT 15
Hazardous Materials	HAZMAT	HAZMAT IN ROADWAY/ALL TRAF EXIT 25
Highway	HWY	ACCIDENT ON AA HWY/EXPECT DELAYS
Hour	HR	ACCIDENT ON AA HWY/2 HR DELAY
Information	INFO	TRAF INFO TUNE TO 1240AM
Interstate	I	E-BND I64 CLOSED/DETOUR EXIT 20
Lane	LN	LN CLOSED /MERGE LEFT
Left	LFT	LANE CLOSED /MERGE LFT
Local	LOC	LOC TRAF USE ALT RTE
Maintenance	MAINT	MAINT WRK ON BRDG/SLOW
Major	MAJ	MAJ DELAYS I75/USE ALT RTE
Mile	MI	ACCIDENT 3 MI AHEAD/USE ALT RTE
Minor	MNR	ACCIDENT 3 MI MNR DELAY
Minutes(s)	MIN	ACCIDENT 3 MI /30 MIN DELAY
Northbound	N-BND	N-BND I75 CLOSED/DETOUR EXIT 50
Oversized	OVRSZ	OVRSZ COMM VEH/USE I275 NEXT RIGHT
Parking	PKING	EVENT PKING NEXT RGT
Parkway	PKWY	CUM PKWAY TRAF/DETOUR EXIT 60
Prepare	PREP	ACCIDENT 3 MI/PREP TO STOP
Right	RGT	EVENT PKING NEXT RGT
Road	RD	HAZMAT IN RD/ALL TRAF EXIT 25
Roadwork	RDWK	RDWK NEXT 4 MI/POSSIBLE DELAYS

Changeable Message Sign Policy

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Route	RTE	MAJ DELAYS I75/USE ALT RTE
Shoulder	SHLDR	SHLDR CLOSED NEXT 5 MI
Slippery	SLIP	SLIP COND POSSIBLE/SLOW SPD
Southbound	S-BND	S-BND I75 CLOSED/DETOUR EXIT 50
Speed	SPD	SLIP COND POSSIBLE/SLOW SPD
Street	ST	MAIN ST CLOSED/USE ALT RTE
Traffic	TRAF	CUM PKWAY TRAF/DETOUR EXIT 60
Vehicle	VEH	OVRSZ COMM VEH/USE I275 NEXT RIGHT
Westbound	W-BND	W-BND I64 CLOSED/DETOUR EXIT 50
Work	WRK	CONST WORK 2 MI/POSSIBLE DELAYS

Certain abbreviations are prone to inviting confusion because another word is abbreviated or could be abbreviated in the same way. DO NOT USE THESE ABBREVIATIONS.

<u>Abbrev.</u>	<u>Intended Word</u>	<u>Word Erroneously Given</u>
ACC	Accident	Access (Road)
CLRS	Clears	Colors
DLY	Delay	Daily
FDR	Feeder	Federal
L	Left	Lane (Merge)
LOC	Local	Location
LT	Light (Traffic)	Left
PARK	Parking	Park
POLL	Pollution (Index)	Poll
RED	Reduce	Red
STAD	Stadium	Standard
TEMP	Temporary	Temperature
WRNG	Warning	Wrong

TYPICAL MESSAGES

The following is a list of typical messages used on CMS. The list consists of the **reason or problem** that you want the driver to be aware of and the **action** that you want the driver to take.

Reason / Problem

ACCIDENT
ACCIDENT/xx MILES
xx ROAD CLOSED
xx EXIT CLOSED
BRIDGE CLOSED
BRIDGE/(SLIPPERY, ICE, etc.)
CENTER/LANE/CLOSED

Changeable Message Sign Policy
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DELAY(S), MAJOR/DELAYS
DEBRIS AHEAD
DENSE FOG
DISABLED/VEHICLE
EMER/VEHICLES/ONLY
EVENT PARKING
EXIT xx/CLOSED
FLAGGER/xx MILES
FOG/xx MILES
FREEWAY CLOSED
FRESH/OIL
HAZMAT/SPILL
ICE
INCIDENT AHEAD
LANES/(NARROW, SHIFT, MERGE, etc.)
LEFT LANE CLOSED
LEFT LANE NARROWS
LEFT/2 LANES/CLOSED
LEFT/SHOULDER/CLOSED
LOOSE/GRAVEL
MEDIAN/WORK/xx MILES
MOVING/WORK/ZONE, WORKERS/IN/ROADWAY
NEXT EXIT CLOSED
NO/OVERSIZED/LOADS
NO/PASSING
NO/SHOULDER
ONE/LANE/BRIDGE
PEOPLE/CROSSING
RAMP CLOSED
RAMP/(SLIPPERY, ICE, etc.)
RIGHT/LANE/CLOSED
RIGHT/2 LANES/CLOSED
RIGHT/LANE/NARROWS
RIGHT/SHOULDER/CLOSED
ROAD CLOSED
ROAD/CLOSED/xx MILES
ROAD/(SLIPPERY, ICE, etc.)
ROAD/WORK
ROAD/WORK (or CONSTRUCTION)/(TONIGHT, TODAY TOMORROW, DATE, etc.)
ROAD/WORK/xx MILES
SHOULDER/(SLIPPERY, ICE, SOFT, BLOCKED, etc.)
NEW SIGNAL/xx MILES
SINGLE LANE
SLOW/1 (or 2) –WAY/TRAFFIC
SOFT/SHOULDER
STALLED VEHICLES AHEAD

Changeable Message Sign Policy

Page 6 of 6

TRAFFIC/BACKUP
TRAFFIC/SLOWS
TRUCK/CROSSING
TRUCKS/ENTERING
TOW TRUCK AHEAD
UNEVEN/LANES
WATER/ON/ROAD
WET PAINT
WORK/ZONE/xx MILES
WORKERS AHEAD

Action

ALL/TRAFFIC/ EXIT RT
AVOID/DELAYS/USE xx
CONSIDER/ALT/ROUTE
DETOUR
DETOUR/xx MILES
DO NOT/PASS
EXPECT/DELAYS
FOLLOW/ALT/ROUTE
KEEP LEFT
KEEP RIGHT
MERGE/xx MILES
MERGE/LEFT
MERGE/RIGHT
ONE-WAY/TRAFFIC
PASS/TO/LEFT
PASS TO/RIGHT
PREPARE/TO/STOP
REDUCE/SPEED
SLOW
SLOW/DOWN
STAY IN/LANE
STAY ON/xx
STOP/AHEAD
STOP/xx MILES
TUNE/RADIO/1610 AM
USE/nn/ROAD
USE/CENTER/LANE
USE/DETOUR/ROUTE
USE/LEFT/LANE
USE/NEXT/EXIT
USE/RIGHT/LANE
WATCH/FOR/FLAGGER

**SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP DETECTORS
(KY 1072 & KY 16)**

The Contractor is advised there are existing traffic signal loop detectors within the construction limits of the subject project. Notify the Engineer in writing, (2) weeks prior to beginning any work on the project.

The Engineer will contact and maintain liaison with the District Traffic Engineer to coordinate any necessary work.

1-3892 trafficsignalloops
01/01/2009

SPECIAL NOTES FOR TRAFFIC SIGNAL LOOP REPLACEMENT

I. DESCRIPTION. Loop replacement shall be performed in accordance with the Department's Standard Specifications (current edition), applicable Standard Drawings, and applicable Special Provisions except as hereafter specified. Article references are to the Standard Specifications.

The Contractor shall furnish all materials, labor, and equipment for the replacement of traffic signal loop(s), and junction boxes (if the contract specifies quantities for this bid item elsewhere), and maintaining and controlling traffic, and all other work specified as part of this contract.

II. MATERIALS. All wire and cable shall be plainly marked in accordance with the provisions of the national electrical code.

Conduit shall be rigid steel. All rigid steel conduit shall be galvanized inside and out and shall conform to the Underwriters' Laboratories requirements for rigid metallic conduit.

Loop wire shall be #14 AWG IMSA Spec 51-7.

Loop lead-in cable shall be #14 AWG stranded, paired conductors, electrically shielded and conforming to IMSA 19-2-1984.

III. CONSTRUCTION. The electrical contractor shall coordinate with the general contractor and inspector to ensure the loops are installed prior to any milling work being performed.

All wiring shall conform to the provisions of the National Electrical Code unless otherwise shown on the details. Where more than one circuit is installed within the same conduit, permanent circuit identification numbers shall be affixed to the wires. All wires shall be permanently labeled within 6 inches of the input file.

Rigid steel conduit encasement shall be provided for all conductors except for overhead installations, where conductors are run inside poles or cabinets and induction loop conductors sealed within pavements. All conduit installations shall conform to the provisions of the National Electrical Code except where directed otherwise. Bonded slip joints will be permitted for joining rigid conduit to junction boxes. Where a standard coupling cannot be used, an approved threaded union coupling shall be used.

All conduit ends shall be reamed to remove burrs and sharp edges. Damaged portions of the galvanized surfaces and untreated threads resulting from field cuts shall be painted with a rust inhibitive paint. Conduit bends shall have a radius of not less than 12 times the nominal diameter of the conduit, unless otherwise shown on the plans. See Typical Grounding Detail.

Conduit which will not be subjected to regular pressure from traffic shall be laid to a depth of not less than 18 inches. At crossings under roadway surfaces and shoulders, the conduit shall be placed at a depth of not less than 24 inches below grade. The contractor will not be permitted to cut any pavement in carrying out conduit installations. After the conduit has been installed and prior to backfilling, the conduit installation shall be inspected and approved by the Engineer.

Contractor shall install underground utility warning tape above the circuit cables as shown on the detail sheets. The tapes shall conform to the APWA-ULCC national color code with black lettering on a red background. The tape shall continuously read "Caution: Electric Line Buried Below" alternating with a 'No Digging' symbol.

The tape shall be durable and colorfast to withstand years of underground burial and easily direct buried. The tape shall be 6" wide and 7 mils (nominal) thick. The tape shall have a minimum tensile strength of 600 lbs./6" width. It shall be color code impregnated with alkali and acid stable, lead-free, organic pigments for direct burial. It shall be ultraviolet colorfast. The tape shall be nondistorting with no elongation.

When backfilling trenches, the backfill material shall be placed and compacted in lifts of 9 inches or less. Any area disturbed as a result of the contractor's operations shall be restored to the satisfaction of the Engineer.

Loop lead-in wire, exclusive of shielded cable, shall be twisted with three to five turns per foot before placement in saw slot, conduit or junction box. Unshielded loop wiring to field terminal connections in cabinet and unshielded loop wiring in loop amplifier connector harness shall also be twisted three to five turns per foot.

Except for the connection of the loop wires to the loop lead-in wires, loops shall be extended splice-free to the controller. Loop wires shown as extended to poles or junction boxes shall be spliced into loop lead-in cable at the poles or boxes. Loop lead-in cable shall be extended splice-free from pole or junction box to controller. Each loop shall have a separate lead-in cable installed. Multiple loops on the same lead-in cable will not be accepted. Splices shall be placed to minimize possibility of water intrusion. The electrical contractor shall coordinate the installation of traffic loops with the paving contractor and the Engineer prior to milling.

Junction boxes shall conform to ANSI/SCTE 77 "Specifications for Underground Enclosure Integrity" for Tier 15. Covers shall have a minimum coefficient of friction of 0.05 in accordance with ASTM C1028, shall be marked "TRAFFIC" and be attached with 3/8 " stainless hex bolts. Junction boxes shall be installed flush with finished grade. See Junction Box Type B detail.

All splices shall be made with butt splices. Butt splices shall be copper and of the correct wire range. Butt splices shall be covered with a 3M Mastic Pad or approved equal and then taped with a 3M brand #33 electrical tape. Mastic pad must cover at least 3 inches past each end of butt splice. Underground splices include splices in junction boxes and

pole bases. Each conductor shall be encased in a separate splice kit. Cost of the splices shall be incidental to the cost of wire or cable. The splicing specification listed here takes precedence over any other splicing specifications listed in the Standard Specifications for Road and Bridge Construction.

Induction loop conductors shall test free of shorts and unauthorized grounds and shall have an insulating resistance of at least 100 megohms when tested with a 500 volt direct current potential in a reasonably dry atmosphere between conductors and ground.

Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a Contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

Information provided in this proposal and the types and quantities of work listed are not to be taken as an accurate or complete evaluation of the material and conditions to be encountered during construction. The bidder must draw his own conclusion as to the conditions encountered. The Department does not give any guarantee as to the accuracy of the data and no claim will be considered for additional compensation if the conditions encountered are not in accordance with the information shown.

It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities.

The Contractor will be responsible for all damage to public and/or private property resulting from his work. Upon completion of the work, restore all disturbed highway features in like kind design and materials. Clean the site and dispose of all waste and debris off the right-of-way at sites obtained by the Contractor at no additional cost to the Department. Sow all disturbed earthen areas with Seed Mixture No. 1.

IV. MEASUREMENT.

Conduit shall include furnishing and installing specified conduit in accordance with specifications. This item includes conduit fittings, expansion joints, clamps, and weatherheads.

Junction box shall include furnishing and installing specified junction box in accordance with the specifications and shown on the Junction Box Type B detail. This item includes #57 aggregate, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer.

Trenching and backfilling shall include excavation, backfilling, and the restoration of disturbed areas to the satisfaction of the Engineer. Incidental to this item shall be

furnishing and installing underground utility warning tape as shown on the Depth of Conduit detail.

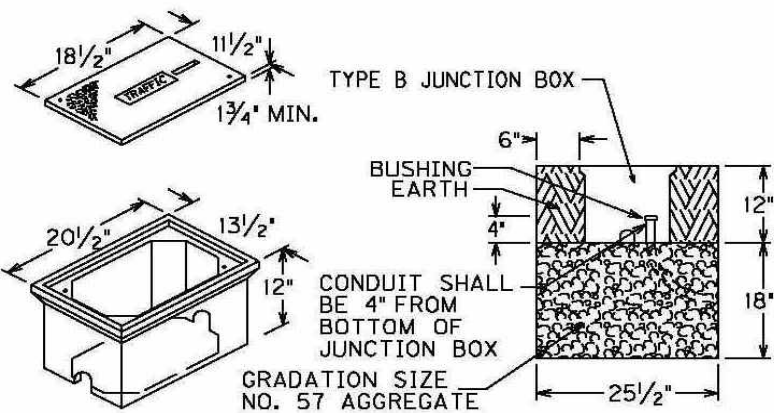
Wire or **cable** shall include furnishing and installing specified wire or cable within conduit, saw slot, or overhead as required. Incidental to this item shall be furnishing and installing splice boots, cable rings or other hardware required for installing cable. Wire installed in saw slots shall be installed as shown on the Saw Slot detail. The contractor shall install all cable runs splice-free from the controller to each loop wire the cable is feeding. Exceptions to this must be approved by the Engineer. The removal of existing lead-in cable shall be incidental to this item. The removal of existing lead-in cable shall be incidental to this item.

Loop saw slot and fill shall include sawing, cleaning saw slot as well as furnishing and installing loop sealant, backer rod and non-shrink grout as shown on the details. The contractor shall saw according to the dimensions shown on the detail sheets and not cut out any sections of pavement by over-sawing any slot. The 3/4” conduit referenced in the Loop Wire Transition details is incidental to this project and not a separate pay item.

V. PAYMENT. The Department will make payment for completed and accepted quantities under the following:

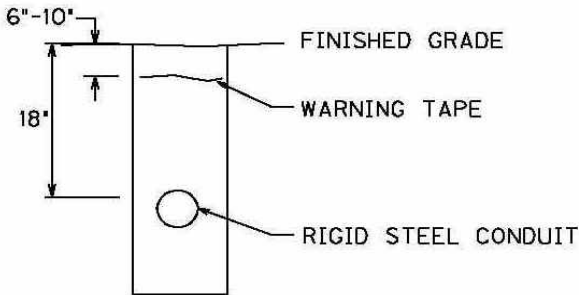
Code	Pay Item	Pay Unit
4793	Conduit 1 1/4”	Linear Foot
4795	Conduit 2”	Linear Foot
4811	Junction Box Type B	Each
4820	Trenching and Backfilling	Linear Foot
4830	Loop Wire	Linear Foot
4850	Cable-No. 14/1 Pair	Linear Foot
4895	Loop Saw Slot and Fill	Linear Foot

01/01/2009

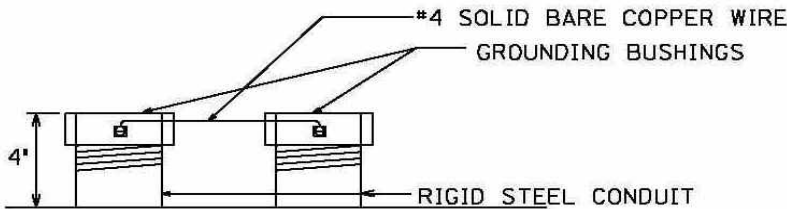


JUNCTION BOXES SHALL CONFORM TO ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY" FOR TIER 15. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.05 IN ACCORDANCE WITH ASTM C1028, SHALL BE MARKED "TRAFFIC" AND BE ATTACHED WITH 3/8" STAINLESS HEX BOLTS. JUNCTION BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.

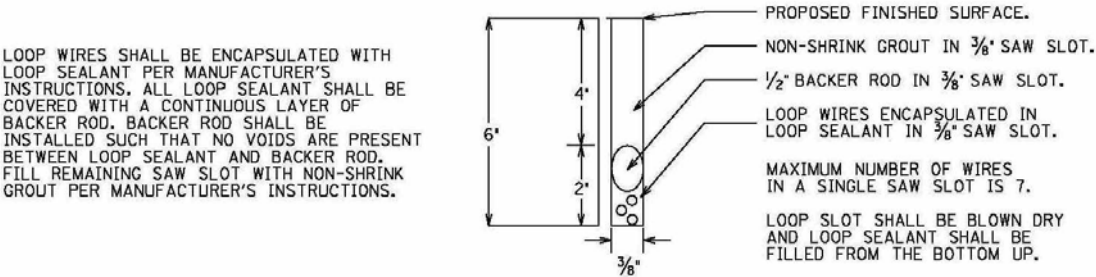
JUNCTION BOX TYPE B



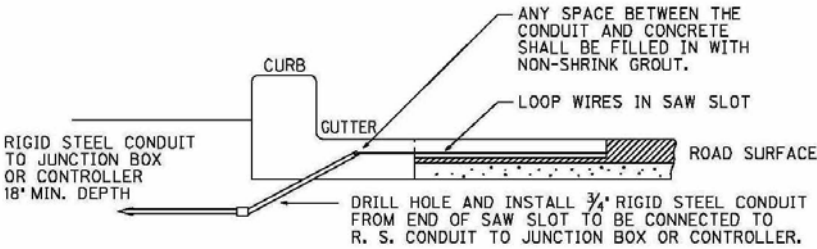
DEPTH OF CONDUIT



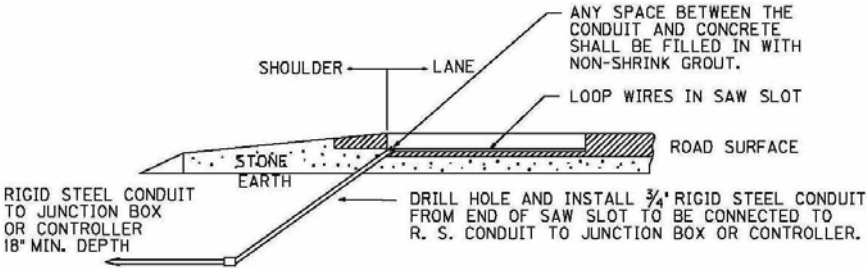
TYPICAL GROUNDING DETAIL



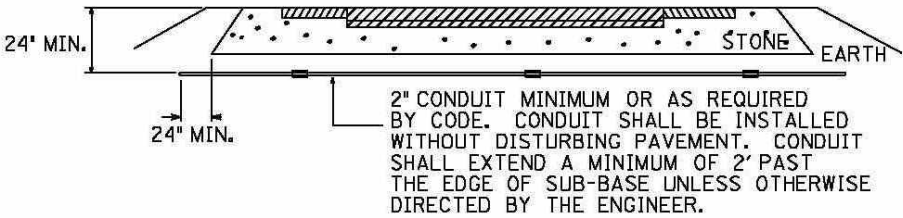
SAW SLOT DETAIL



LOOP WIRE TRANSITION - CONCRETE CURB

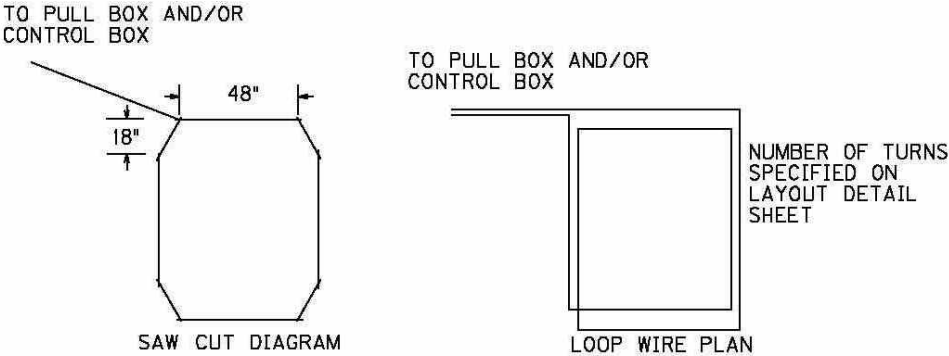


LOOP WIRE TRANSITION - FLAT SHOULDER



CONDUIT UNDER EXISTING PAVEMENT DETAIL

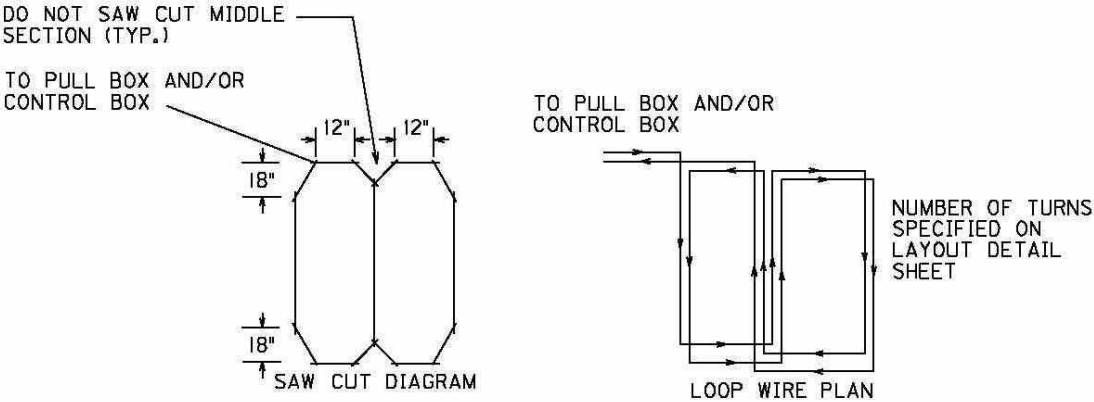
LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.



STANDARD LOOP

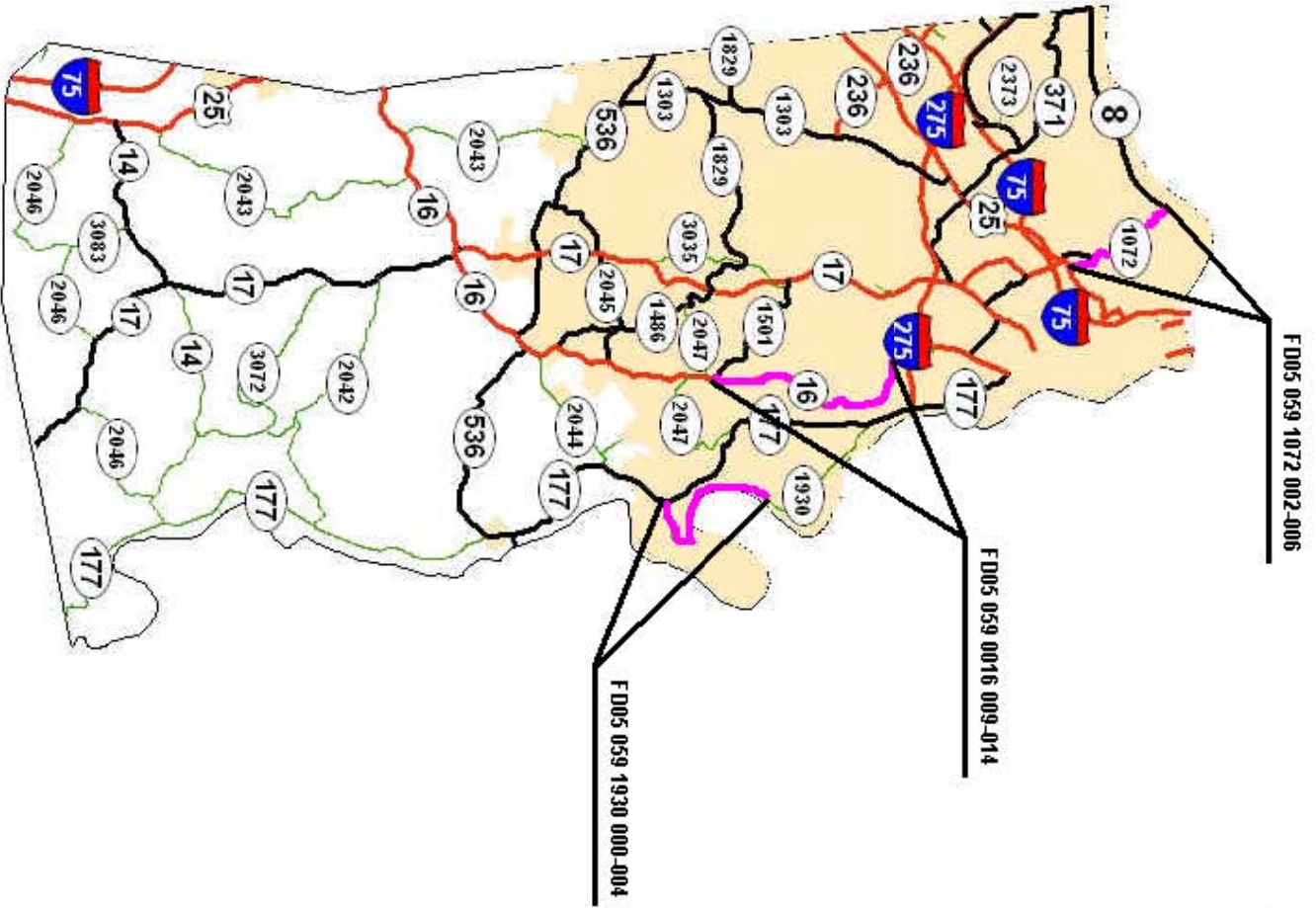
•ALL 6'x6' LOOPS SHALL BE STANDARD

LOOP LEAD-IN WIRES SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.

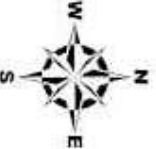


QUADRAPOLE LOOP

•ALL 6'x30' LOOPS SHALL BE QUADRAPOLE



DEPARTMENT OF HIGHWAYS
MAP OF
KENTON COUNTY



MATERIAL SUMMARY

CONTRACT ID: 092031

FD05 059 0016 009-014

PES NO: MP05900160901

TAYLOR MILL ROAD (KY 16) FROM KY 1501 (MP 9.541) EXTENDING NORTHERLY TO OLD TAYLOR
MILL ROAD (MP 13.391), A DISTANCE OF 3.850000 MILES.

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0010	00190	LEVELING & WEDGING PG64-22	211.00	TON
0020	02562	SIGNS	850.00	SQFT
0140	02650	MAINTAIN & CONTROL TRAFFIC KY 16	1.00	LS
0170	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0030	02676	MOBILIZATION FOR MILL & TEXT KY 16	1.00	LS
0040	02677	ASPHALT PAVE MILLING & TEXTURING	20.00	TON
0160	02775	ARROW PANEL	1.00	EACH
0050	04830	LOOP WIRE	455.00	LF
0060	04895	LOOP SAW SLOT AND FILL	302.00	LF
0070	06510	PAVE STRIPING-TEMP PAINT-4 IN	9,130.00	LF
0080	06514	PAVE STRIPING-PERM PAINT-4 IN	81,300.00	LF
0090	06565	PAVE MARKING-THERMO X-WALK-6 IN	100.00	LF
0100	06568	PAVE MARKING-THERMO STOP BAR-24IN	30.00	LF
0110	06574	PAVE MARKING-THERMO CURV ARROW	4.00	EACH
0120	10020NS	FUEL ADJUSTMENT	6,194.00	DOLL
0130	10030NS	ASPHALT ADJUSTMENT	10,916.00	DOLL
0150	22906ES403	CL3 ASPH SURF 0.38A PG64-22	4,320.00	TON
0180	02569	DEMOBILIZATION	1.00	LS

MATERIAL SUMMARY

CONTRACT ID: 092031

FD05 059 1072 002-006

PES NO: MP05910720901

SLEEPY HOLLOW (KY 1072) FROM US 25 (MP 2.854) EXTENDING NORTHERLY TO KY 8 (MP 5.019),
A DISTANCE OF 2.170000 MILES.

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0010	00190	LEVELING & WEDGING PG64-22	252.00	TON
0020	00307	CL2 ASPH SURF 0.38B PG64-22	2,500.00	TON
0030	02562	SIGNS	370.00	SQFT
0210	02650	MAINTAIN & CONTROL TRAFFIC KY 1072	1.00	LS
0180	02671	PORTABLE CHANGEABLE MESSAGE SIGN	1.00	EACH
0040	02676	MOBILIZATION FOR MILL & TEXT KY 1072	1.00	LS
0050	02677	ASPHALT PAVE MILLING & TEXTURING	665.00	TON
0060	02720	SIDEWALK-4 IN CONCRETE	98.00	SQYD
0170	02775	ARROW PANEL	1.00	EACH
0070	04830	LOOP WIRE	810.00	LF
0080	04895	LOOP SAW SLOT AND FILL	604.00	LF
0090	06510	PAVE STRIPING-TEMP PAINT-4 IN	9,150.00	LF
0100	06514	PAVE STRIPING-PERM PAINT-4 IN	45,700.00	LF
0110	06565	PAVE MARKING-THERMO X-WALK-6 IN	464.00	LF
0120	06568	PAVE MARKING-THERMO STOP BAR-24IN	147.00	LF
0130	06574	PAVE MARKING-THERMO CURV ARROW	3.00	EACH
0140	06575	PAVE MARKING-THERMO COMB ARROW	2.00	EACH
0150	06576	PAVE MARKING-THERMO ONLY	1.00	EACH
0160	06600	REMOVE PAVEMENT MARKER TYPE V	20.00	EACH
0190	10020NS	FUEL ADJUSTMENT	3,762.00	DOLL
0200	10030NS	ASPHALT ADJUSTMENT	6,630.00	DOLL
0220	23158ES505	DETECTABLE WARNINGS	208.00	SQFT
0230	02569	DEMOBILIZATION	1.00	LS

FD05 059 1930 000-004

PES NO: MP05919300901

WHITES ROAD-LOCUST PIKE (KY 1930) FROM KY 177 (MP 0.000) EXTENDING NORTHERLY TO
FEISER ROAD (MP 3.767), A DISTANCE OF 3.770000 MILES.

LINE NO	BID CODE	DESCRIPTION	QUANTITY	UNIT
0010	00190	LEVELING & WEDGING PG64-22	365.00	TON
0020	00301	CL2 ASPH SURF 0.38D PG64-22	2,635.00	TON
0030	02562	SIGNS	250.00	SQFT
0130	02650	MAINTAIN & CONTROL TRAFFIC KY 1930	1.00	LS
0040	02676	MOBILIZATION FOR MILL & TEXT KY 1930	1.00	LS
0050	02677	ASPHALT PAVE MILLING & TEXTURING	25.00	TON
0060	06510	PAVE STRIPING-TEMP PAINT-4 IN	2,530.00	LF
0070	06514	PAVE STRIPING-PERM PAINT-4 IN	12,650.00	LF
0100	06562	PAVE MARKING-THERMO R 6 FT	24.00	EACH
0090	06563	PAVE MARKING-R/R XBUCKS 16 IN	32.00	LF
0080	06568	PAVE MARKING-THERMO STOP BAR-24IN	44.00	LF
0110	10020NS	FUEL ADJUSTMENT	4,101.00	DOLL
0120	10030NS	ASPHALT ADJUSTMENT	7,227.00	DOLL
0140	02569	DEMOBILIZATION	1.00	LS

FD05 059 1072 002-006

MPT.	INTERSECTION	X-WALKS 6 INCH LF	STP BARS 24 INCH LF	CURVE EA	ARROWS STR EA	"ONLY" EA	CATRAXX 6 INCH LF	"R" 6 FOOT EA	RAILROAD CROSS BUCK 16" LF	NOTES
2.854	KY 1072 @ US 25	80	24	2		1				
3.248	KY 1072 @ Amsterdam	60	24							
3.500	KY 1072 @ Lookout Hts			1						
4.691	KY 1072 @ Adela		18							
4.782	KY 1072 @ Laurel	144	36							
4.954	KY 1072 @ Oak St	120	30							
5.019	KY 1072 @ KY 8	60	15							
TOTAL		464	147	3	0	2	1	0	0	

FD05 059 0016 009-014

*** STOP PAVING BEFORE CROSSWALK @ OLD TAYLOR MILL ROAD**

*** STOP PAVING BEFORE CROSSWALK @ OLD TAYLOR MILL ROAD**

FD05 059 1930 001-004

[illegible]

Traffic Loop Locations

County	Route No.	Milepoints	Signalized	GES	Saw Cut	Wire
Project Number	Road Name	Length	Intersections	Loops	and Fill	
KENTON	KY 1072	2.854	KY 1072 @ US 25	2	604	810
FD05 059 1072 002-006	SLEEPY HOLLOW	5.019		1	0	0
		2.165				

Totals	3	604	810
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Traffic Loop Locations

County	Route No.	Milepoints	Signalized Intersections	GES	Saw Cut	Wire
Project Number	Road Name	Length		Milepoint	Loops	Loops and Fill
KENTON	KY 16	9.541	KY 16 @ Old Taylor Mill Rd	13.391	1	302
FD05 059 0016 009-014	TAYLOR MILL ROAD	13.391				455
		3.85				

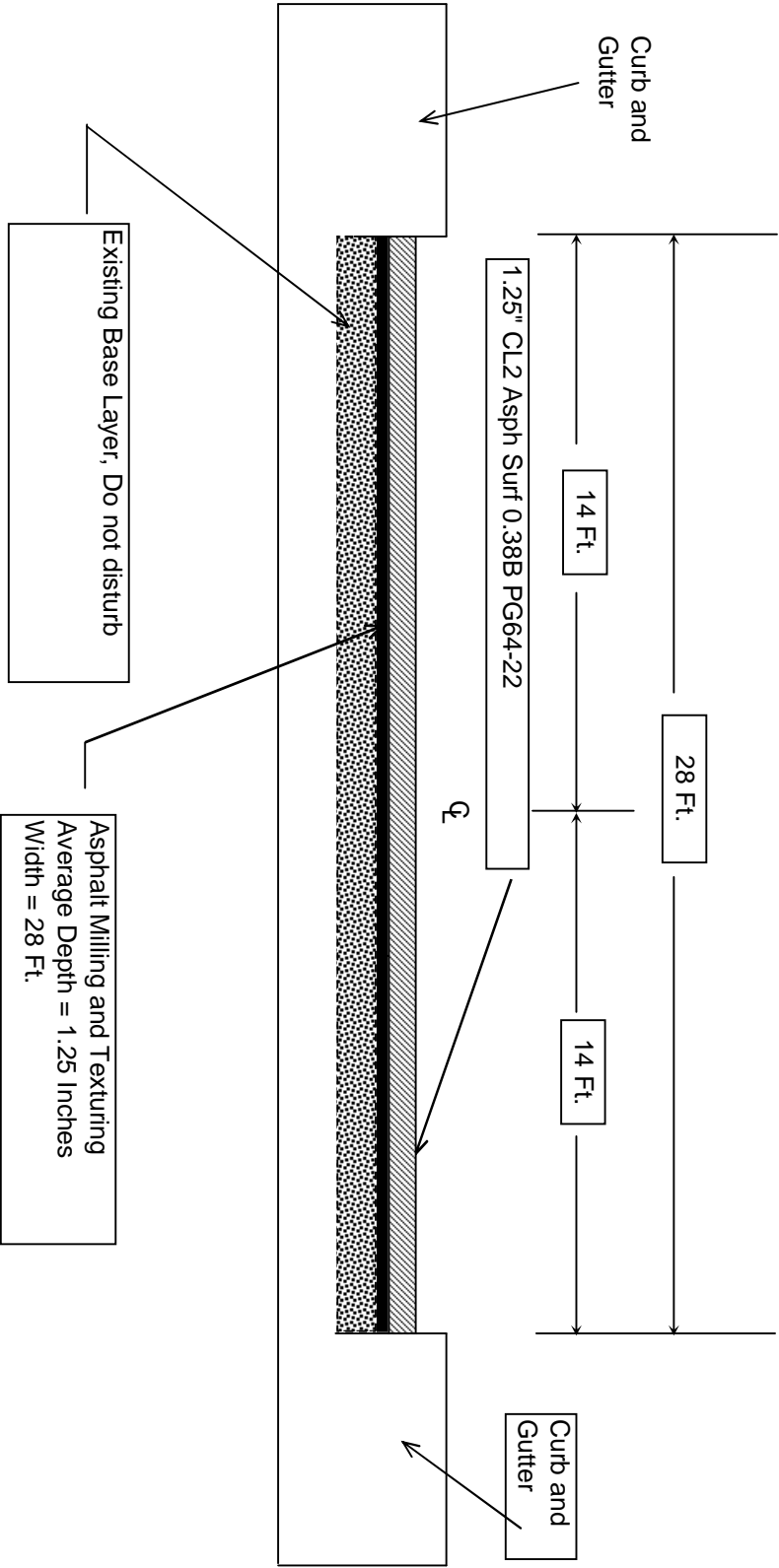
Totals	1	302	455
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Sidewalk Ramp Locations

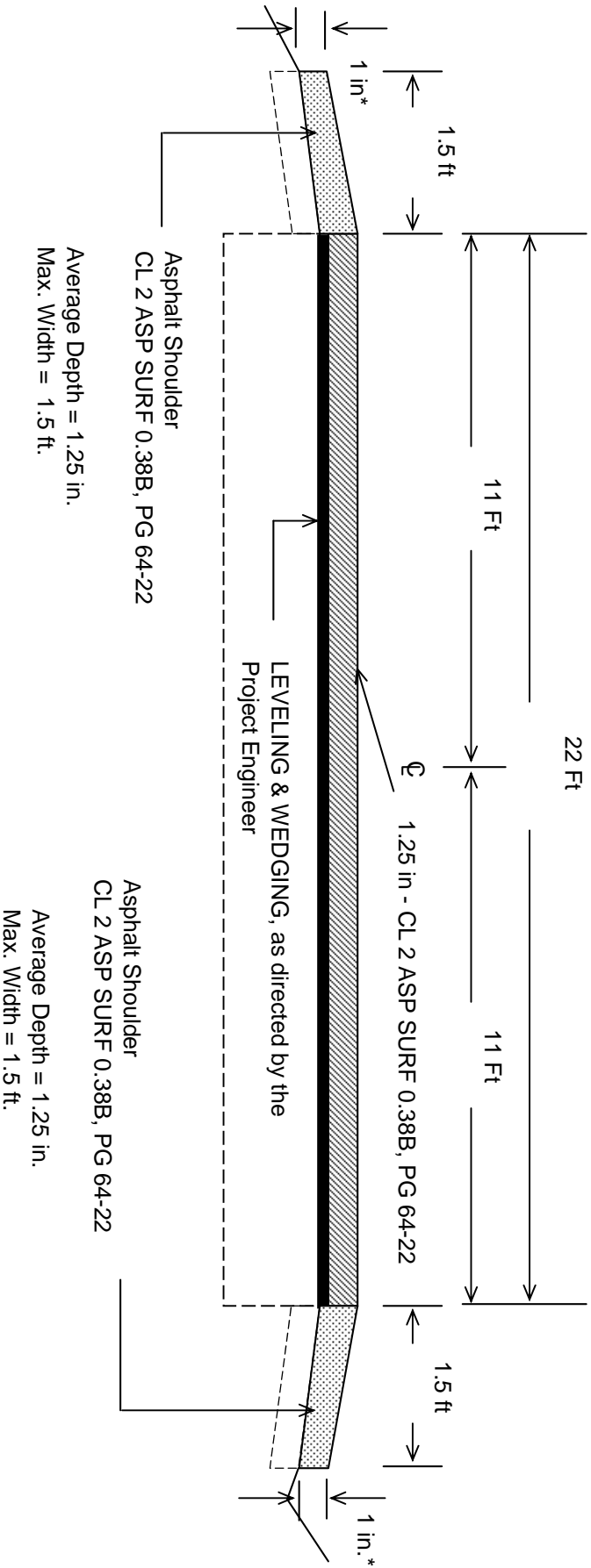
County	Route No.	Milepoints	Intersection	*Ramp	NE	SE	SW	NW
Project Number	Road Name	Length		Type				
KENTON	KY 1072	2.854	US 25 (DIXIE HWY)	1	1	0	0	0
FD05 059 1072 002-006	SLEEPY HOLLOW	5.019		3	0	0	0	1
				1	1	0	0	0
			AMSTERDAM ROAD	3	0	1	0	0
			ADELA AVE	1	1	1	1	1
			LAUREL AVE	3	1	1	1	1
	KY 8	2.165		3	0	1	1	0
Sub Totals					4	4	3	3
Total					14			

* May need to be modified to fit existing conditions

KENTON COUNTY
KY 1072
TYPICAL SECTION
FD05 059 1072 002-006
MILEPOINTS 2.854 - 3.022

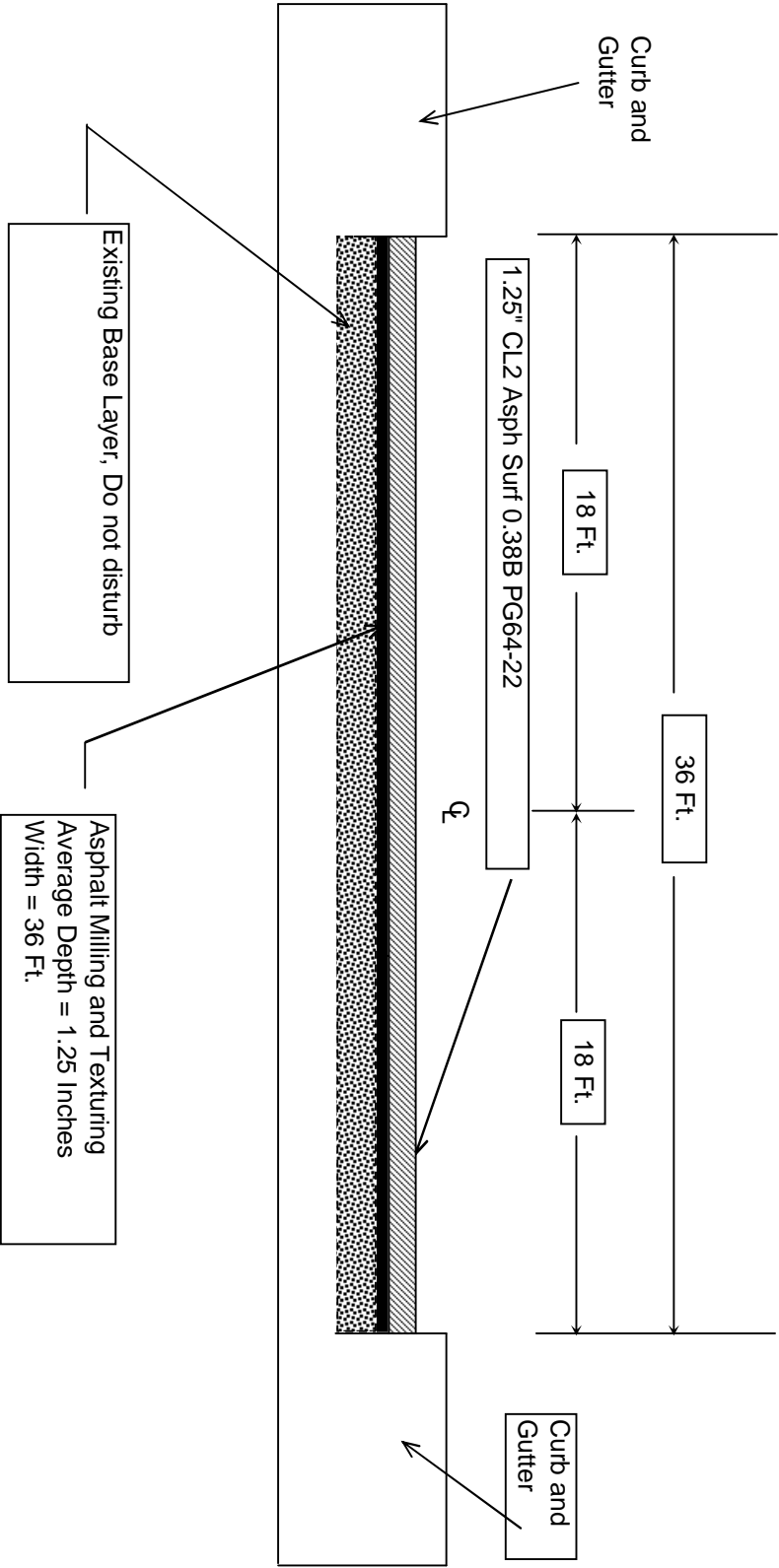


KENTON COUNTY
KY 1072
TYPICAL SECTION
FD05 059 1072 002-006
MILEPOINTS 3.022 - 4.691

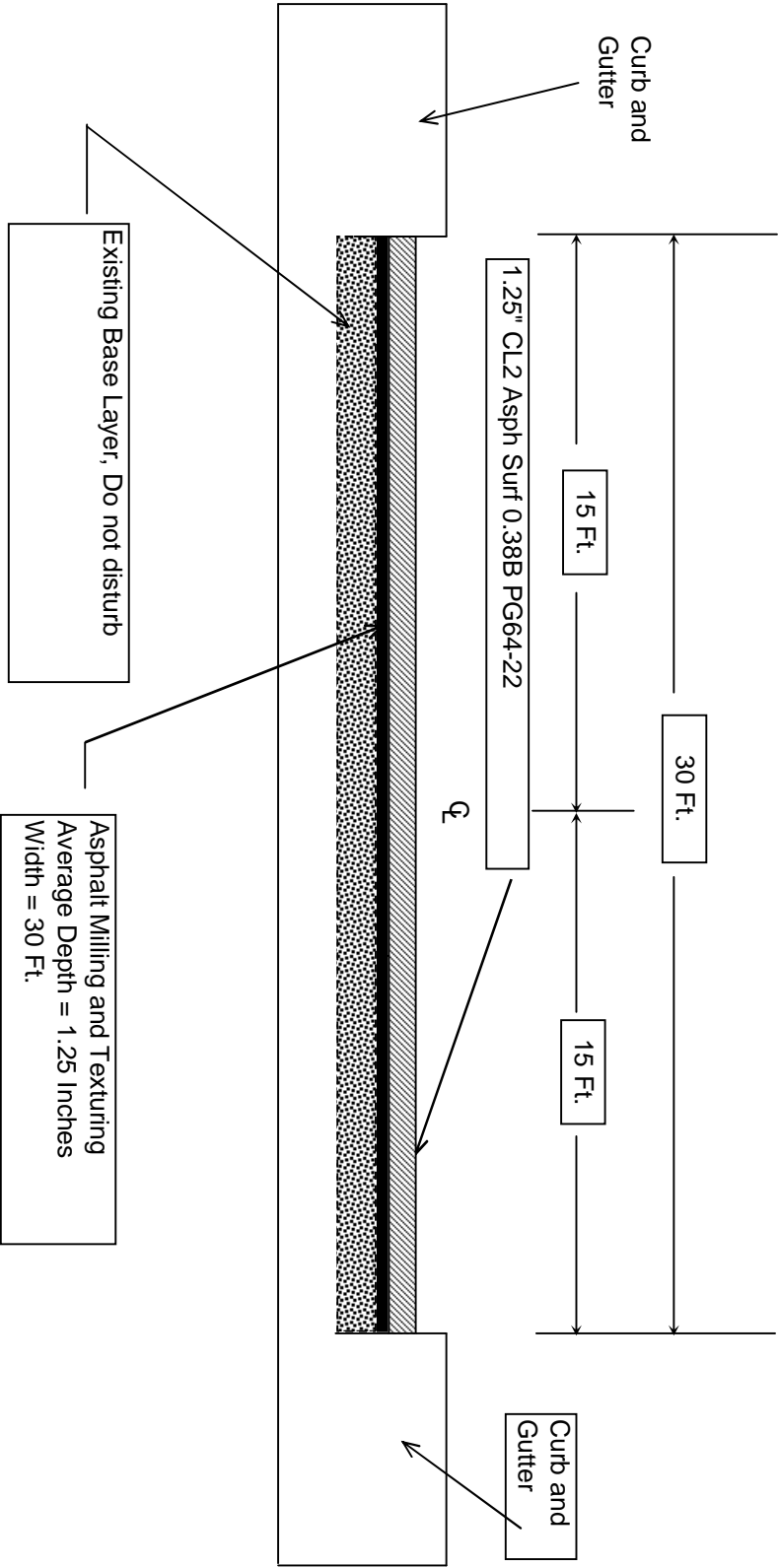


*1" Maximum

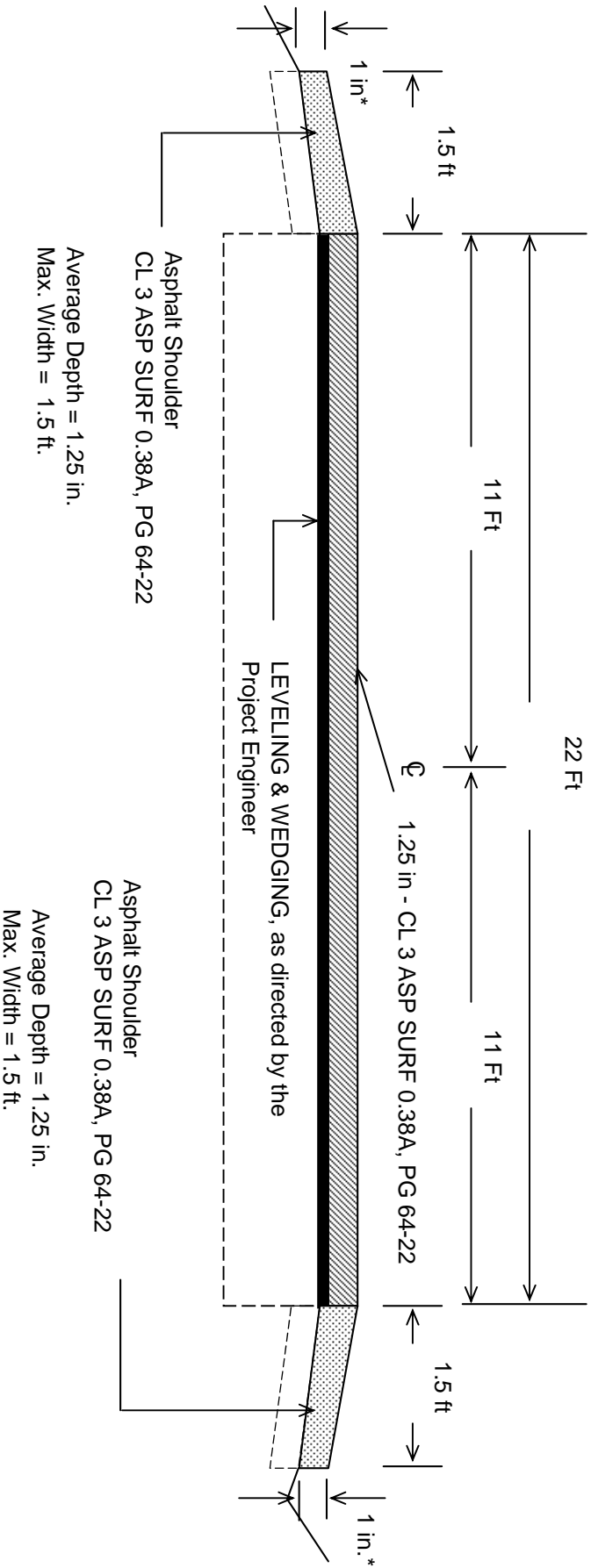
KENTON COUNTY
KY 1072
TYPICAL SECTION
FD05 059 1072 002-006
MILEPOINTS 4.691 - 4.782



KENTON COUNTY
KY 1072
TYPICAL SECTION
FD05 059 1072 002-006
MILEPOINTS 4.782 - 5.019

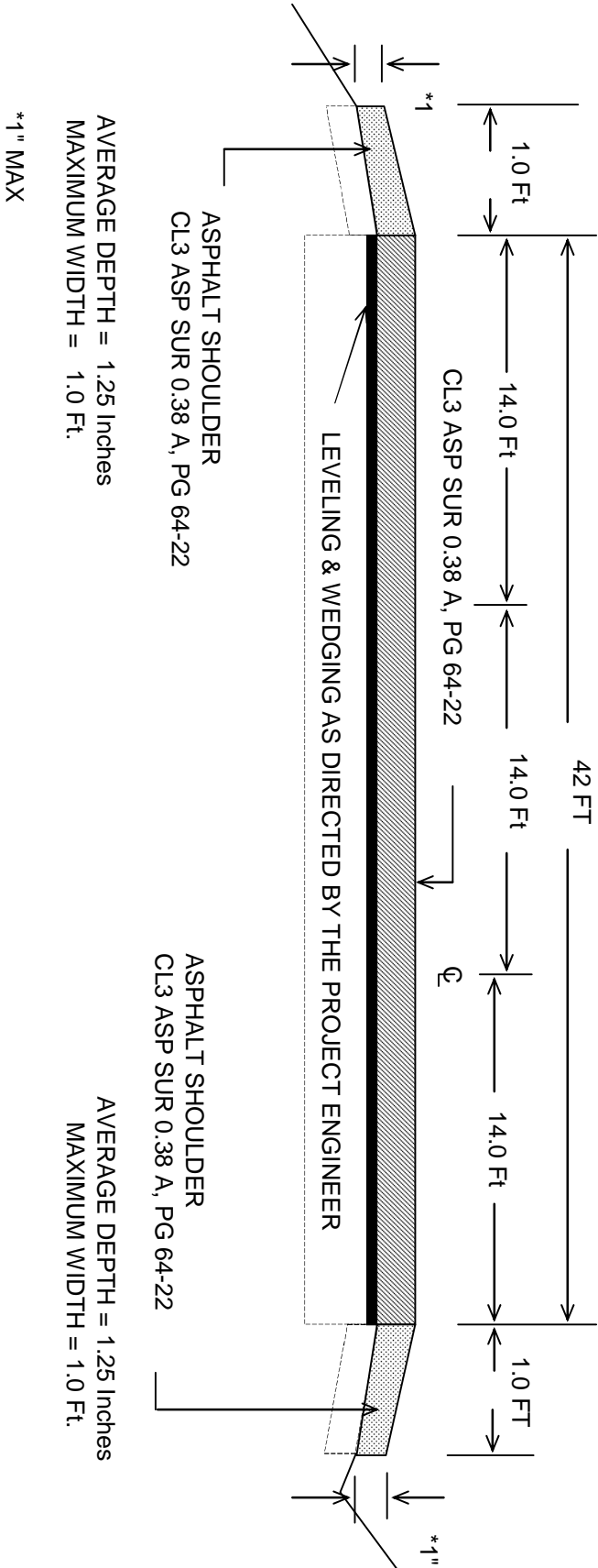


KENTON COUNTY
KY 16
TYPICAL SECTION
FD05 059 0016 009-014
MILEPOINTS 9.541 - 13.291

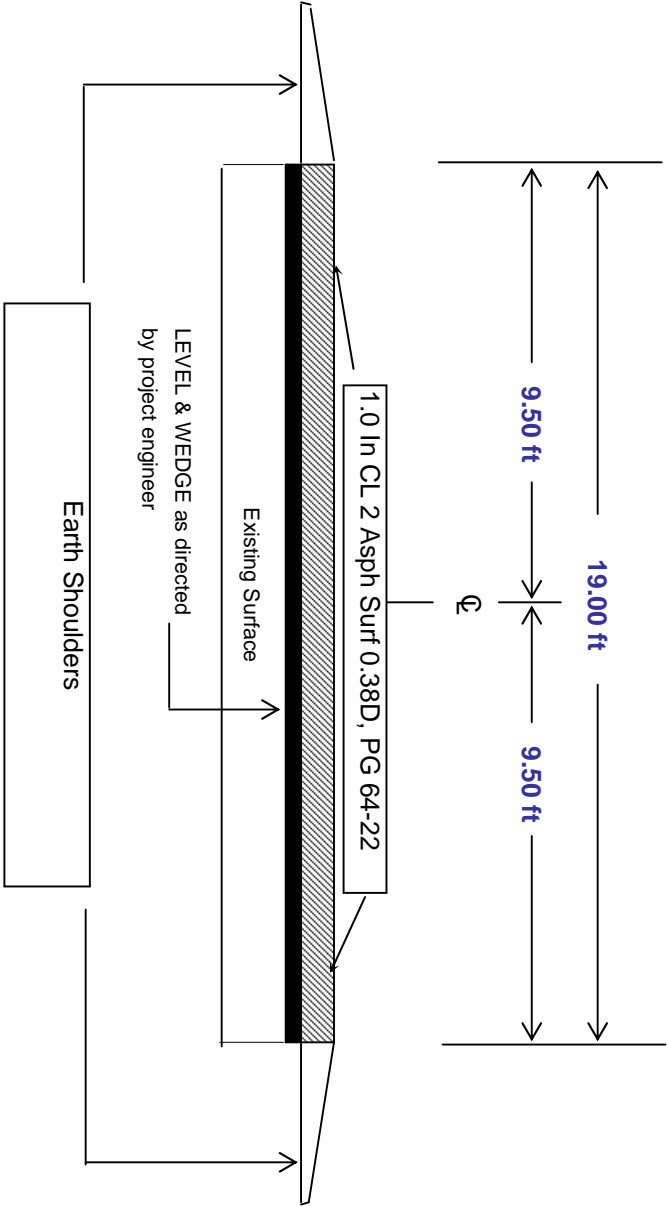


*1" Maximum

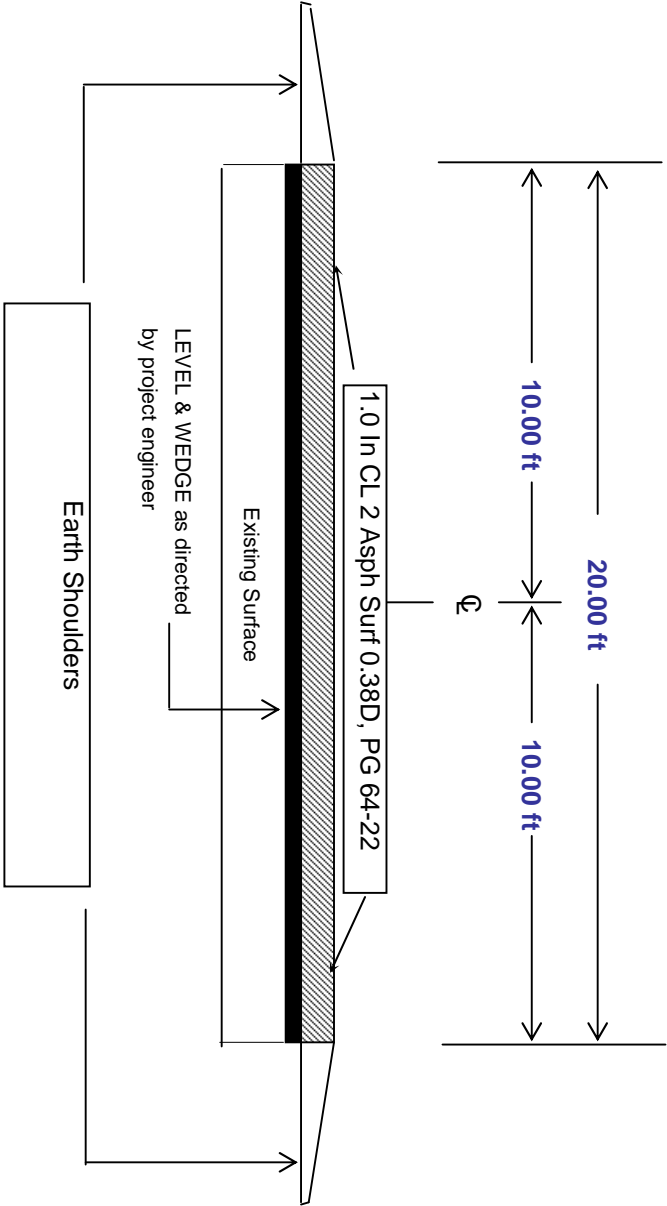
KENTON COUNTY
KY 16
TYPICAL SECTION (3 LANE SECTION)
FD05 059 0016 009-014
MILEPOINTS 13.291 - 13.391



KENTON COUNTY
KY 1930
TYPICAL SECTION
FD05 059 1930 000-001
MILEPOINTS 0.000 - 1.198



KENTON COUNTY
KY 1930
TYPICAL SECTION
FD05 059 1930 001-004
MILEPOINTS 1.198 - 3.767



PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to the *Standard Specifications for Road and Bridge Construction, Edition of 2004*, and *Standard Drawings, Edition of 2000* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2008* and *Standard Drawings, Edition of 2003 with the 2008 Revision*.

**Supplemental Specifications to The Standard Specifications
for Road and Bridge Construction, 2008 Edition**
(Effective with the March 27, 2009 Letting)

SUBSECTION:	102.07.01 General.
REVISION:	Replace the first sentence with the following: Submit the Bid Proposal on forms furnished on the Department internet website (http://transportation.ky.gov/contract/), including the Bid Packet and disk created from the Expedite Bidding Program.
SUBSECTION:	102.07.02 Computer Bidding.
REVISION:	Replace the first paragraph with the following: Subsequent to ordering a Bid Proposal for a specific project, use the Department's Expedite Bidding Program on the internet website of the Department of Highways, Division of Construction Procurement (http://transportation.ky.gov/contract/). Download the bid file from the Department's website to prepare a Bid Proposal for submission to the Department. Include the completed Bid Packet produced by the Expedite Bidding Program in the Bid Proposal and submit it along with the disk created by said program. Replace the second paragraph with the following: In case of a dispute, the printed Bid Proposal and bid item sheets created by the Expedite Bidding Program take precedence over any bid submittal.
SUBSECTION:	102.08 IRREGULAR BID PROPOSALS.
REVISION:	Replace point four of the first paragraph with the following: 4) fails to submit a disk created from the Expedite Bidding Program. Replace point one of the second paragraph with the following: 1) when the Bid Proposal is on a form other than that furnished by the Department or printed from other than the Expedite Bidding Program, or when the form is altered or any part is detached; or
SUBSECTION:	103.02 AWARD OF CONTRACT.
REVISION:	Replace the first sentence of the third paragraph with the following: The Department will normally award the Contract within 10 working days after the date of receiving Bid Proposals unless the Department deems it best to hold the Bid Proposals of any or all bidders for a period not to exceed 60 calendar days for final disposition of award.
SUBSECTION:	105.01.01 Authority of the Engineer.
REVISION:	Insert the following after the third paragraph: The Engineer or his designee will perform all duties and responsibilities as stipulated in the Specifications or other documents to the best of his ability with the available resources.
SUBSECTION:	105.13 CLAIM RESOLUTION PROCESS.
REVISION:	Delete the last paragraph from the section.
SUBSECTION:	106.10 FIELD WELDER CERTIFICATION REQUIREMENTS.
REVISION:	Insert the following sentence before the first sentence of the first paragraph: All field welding must be performed by a certified welder unless otherwise noted.
SUBSECTION:	112.03.12 Project Traffic Coordinator (PTC).
REVISION:	Add the following at the end of the subsection: After October 1, 2008 the Department will require the PTC to have successfully completed the applicable qualification courses. Personnel that have not successfully completed the applicable courses by that date will not be considered qualified. Prior to October 1, 2008, conform to Subsection 108.06 A) and ensure the designated PTC has sufficient skill and experience to properly perform the task.

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SUBSECTION:	213.03.03 Inspection and Maintenance.												
REVISION:	Insert the following paragraph after the second paragraph: When the Contractor is required to obtain the KPDES permit, it is their responsibility to ensure compliance with the inspection and maintenance requirements of the permit. The Engineer will perform verification inspections a minimum of once per month and within 7 days of a ½ inch or greater rainfall event. The Engineer will document these inspections using Form TC 63-61 A. The Engineer will provide copies of the inspection only when improvements to the BMP's are required. Verification inspections performed by the Engineer do not relieve the Contractor of any responsibility for compliance with the KPDES permit. Initiate corrective action within 24 hours of any noted deficiency and complete the work within 5 days.												
SUBSECTION:	213.03.05 Temporary Control Measures.												
PART:	F) Temporary Mulch.												
REVISION:	Replace the last sentence with the following: Place temporary mulch to an approximate 2-inch loose depth (2 tons per acre) and anchor it into the soil by mechanically crimping it into the soil surface or applying tackifier to provide a protective cover. Regardless of the anchoring method used, ensure the protective cover holds until disturbance is required or permanent controls are in installed.												
SUBSECTION:	303.05 PAYMENT.												
REVISION:	Replace the second paragraph of the section with the following: The Department will make payment for Drainage Blanket-Type II (ATDB) according to the Lot Pay Adjustment Schedule for Specialty Mixtures in Section 402.												
SUBSECTION:	402.05.02 Asphalt Mixtures and Mixtures with RAP.												
REVISION:	Replace the paragraph with the following: The Department will pay for the mixture at the Contract unit bid price and apply a Lot Pay Adjustment for each lot placed based on the degree of compliance with the specified tolerances. Using the appropriate Lot Pay Adjustment Schedule, the Department will assign a pay value for the applicable properties within each subplot and average the subplot pay values to determine the pay value for a given property for each lot. The Department will apply the Lot Pay Adjustment for each lot to a defined unit price of \$50.00 per ton. The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.												
SUBSECTION:	402.05.02 Asphalt Mixtures and Mixtures with RAP.												
PART:	Lot Pay Adjustment Schedule, Compaction Option A, Base and Binder Mixtures												
TABLES:	VMA												
REVISION:	Replace the VMA table with the following: <table><tr><th colspan="2">VMA</th></tr><tr><td>Pay Value</td><td>Deviation From Minimum</td></tr><tr><td>1.00</td><td>≥ min. VMA</td></tr><tr><td>0.95</td><td>0.1-0.5 below min.</td></tr><tr><td>0.90</td><td>0.6-1.0 below min.</td></tr><tr><td>(1)</td><td>> 1.0 below min.</td></tr></table>	VMA		Pay Value	Deviation From Minimum	1.00	≥ min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	(1)	> 1.0 below min.
VMA													
Pay Value	Deviation From Minimum												
1.00	≥ min. VMA												
0.95	0.1-0.5 below min.												
0.90	0.6-1.0 below min.												
(1)	> 1.0 below min.												

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SUBSECTION:	402.05.02 Asphalt Mixtures and Mixtures With RAP.																									
PART:	Lot Pay Adjustment Schedule, Compaction Option A, Surface Mixtures																									
TABLES:	VMA																									
REVISION:	Replace the VMA table with the following:																									
<table><tr><th colspan="2">VMA</th></tr><tr><th>Pay Value</th><th>Deviation From Minimum</th></tr><tr><td>1.00</td><td>≥ min. VMA</td></tr><tr><td>0.95</td><td>0.1-0.5 below min.</td></tr><tr><td>0.90</td><td>0.6-1.0 below min.</td></tr><tr><td>(1)</td><td>> 1.0 below min.</td></tr></table>		VMA		Pay Value	Deviation From Minimum	1.00	≥ min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	(1)	> 1.0 below min.													
VMA																										
Pay Value	Deviation From Minimum																									
1.00	≥ min. VMA																									
0.95	0.1-0.5 below min.																									
0.90	0.6-1.0 below min.																									
(1)	> 1.0 below min.																									
SUBSECTION:	402.05.02 Asphalt Mixtures and Mixtures With RAP.																									
PART:	Lot Pay Adjustment Schedule, Compaction Option B Mixtures																									
TABLE:	VMA																									
REVISION:	Replace the VMA table with the following:																									
<table><tr><th colspan="2">VMA</th></tr><tr><th>Pay Value</th><th>Deviation From Minimum</th></tr><tr><td>1.00</td><td>≥min. VMA</td></tr><tr><td>0.95</td><td>0.1-0.5 below min.</td></tr><tr><td>0.90</td><td>0.6-1.0 below min.</td></tr><tr><td>(2)</td><td>> 1.0 below min.</td></tr></table>		VMA		Pay Value	Deviation From Minimum	1.00	≥min. VMA	0.95	0.1-0.5 below min.	0.90	0.6-1.0 below min.	(2)	> 1.0 below min.													
VMA																										
Pay Value	Deviation From Minimum																									
1.00	≥min. VMA																									
0.95	0.1-0.5 below min.																									
0.90	0.6-1.0 below min.																									
(2)	> 1.0 below min.																									
SUBSECTION:	403.03.03 Preparation of Mixture.																									
PART:	C) Mix Design Criteria.																									
NUMBER:	1) Preliminary Mix Design.																									
REVISION:	Replace the last two sentences of the paragraph and table with the following:																									
Complete the volumetric mix design at the appropriate number of gyrations as given in the table below for the number of 20-year ESAL's. The Department will define the relationship between ESAL classes, as given in the bid items for Superpave mixtures, and 20-year ESAL ranges as follows:																										
<table><tr><th colspan="2"></th><th colspan="3">Number of Gyrations</th></tr><tr><th>Class</th><th>ESAL's (millions)</th><th>$N_{initial}$</th><th>N_{design}</th><th>N_{max}</th></tr><tr><td>2</td><td>< 3.0</td><td>6</td><td>50</td><td>75</td></tr><tr><td>3</td><td>3.0 to < 30.0</td><td>7</td><td>75</td><td>115</td></tr><tr><td>4</td><td>≥ 30.0</td><td>8</td><td>100</td><td>160</td></tr></table>				Number of Gyrations			Class	ESAL's (millions)	$N_{initial}$	N_{design}	N_{max}	2	< 3.0	6	50	75	3	3.0 to < 30.0	7	75	115	4	≥ 30.0	8	100	160
		Number of Gyrations																								
Class	ESAL's (millions)	$N_{initial}$	N_{design}	N_{max}																						
2	< 3.0	6	50	75																						
3	3.0 to < 30.0	7	75	115																						
4	≥ 30.0	8	100	160																						
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.																									
PART:	A) Leveling and Wedging.																									
REVISION:	Replace the first sentence of the first paragraph with the following:																									
Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.																										
SUBSECTION:	403.03.09 Leveling and Wedging, and Scratch Course.																									
PART:	B) Scratch Course.																									
REVISION:	Replace the second sentence of the first paragraph with the following:																									
Conform to the gradation requirements (control points) of AASHTO M 323 for base, binder, or surface as the Engineer directs.																										

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SUBSECTION:	410.01 DESCRIPTION.														
REVISION:	Delete the second sentence of the paragraph.														
SUBSECTION:	410.03.01 Corrective Work.														
REVISION:	Replace the last sentence of the paragraph with the following: Provide a final surface comparable to the adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.														
SUBSECTION:	410.03.02 Ride Quality.														
PART:	B) Requirements.														
NUMBER:	1) Category A.														
REVISION:	Replace the last sentence of the first paragraph with the following: At the Department’s discretion, a pay deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.														
SUBSECTION:	410.03.02 Ride Quality.														
PART:	B) Requirements.														
NUMBER:	2) Category B.														
REVISION:	Replace the second and third sentence of the first paragraph with the following: When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department’s discretion, a pay deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.														
SUBSECTION:	410.05 PAYMENT.														
REVISION:	Add the following sentence to the end of the first paragraph: The sum of the pay value adjustments for ride quality shall not exceed \$0 for the project as a whole.														
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG76-22.														
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph: The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.														
SUBSECTION:	413.05.02 CL3 SMA BASE 1.00D PG 76-22.														
TABLE:	JOINT DENSITY TABLE														
REVISION:	Replace the joint density table with the following: <table><tr><th colspan="2">LANE DENSITY</th></tr><tr><th>Pay Value</th><th>Test Result (%)</th></tr><tr><td>1.05</td><td>95.0-96.5</td></tr><tr><td>1.00</td><td>93.0-94.9</td></tr><tr><td>0.95</td><td>92.0-92.9 or 96.6-97.0</td></tr><tr><td>0.90</td><td>91.0-91.9 or 97.1-97.5</td></tr><tr><td>(1)</td><td>< 91.0 or > 97.5</td></tr></table>	LANE DENSITY		Pay Value	Test Result (%)	1.05	95.0-96.5	1.00	93.0-94.9	0.95	92.0-92.9 or 96.6-97.0	0.90	91.0-91.9 or 97.1-97.5	(1)	< 91.0 or > 97.5
LANE DENSITY															
Pay Value	Test Result (%)														
1.05	95.0-96.5														
1.00	93.0-94.9														
0.95	92.0-92.9 or 96.6-97.0														
0.90	91.0-91.9 or 97.1-97.5														
(1)	< 91.0 or > 97.5														
SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.														
REVISION:	Insert the following sentence between the first and second sentence of the first paragraph: The Department will calculate the Lot Pay Adjustment using all possible incentives and disincentives but will not allow the overall pay value for a lot to exceed 1.00.														

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SUBSECTION:	413.05.03 CL3 SMA SURF 0.50A PG76-22 and CL3 SMA SURF 0.38A PG76-22.																										
TABLE:	JOINT DENSITY TABLE																										
REVISION:	Replace the joint density table with the following:																										
<table><tr><th colspan="3">DENSITY</th></tr><tr><th>Pay Value</th><th>Lane Density Test Result (%)</th><th>Joint Density Test Result (%)</th></tr><tr><td>1.05</td><td>95.0-96.5</td><td>92.0-96.0</td></tr><tr><td>1.00</td><td>93.0-94.9</td><td>90.0-91.9</td></tr><tr><td>0.95</td><td>92.0-92.9 or 96.6-97.0</td><td>89.0-89.9 or 96.1-96.5</td></tr><tr><td>0.90</td><td>91.0-91.9 or 97.1-97.5</td><td>88.0-88.9 or 96.6-97.0</td></tr><tr><td>0.75</td><td>----</td><td>< 88.0 or > 97.0</td></tr><tr><td>⁽¹⁾</td><td>< 91.0 or > 97.5</td><td>----</td></tr></table>				DENSITY			Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)	1.05	95.0-96.5	92.0-96.0	1.00	93.0-94.9	90.0-91.9	0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5	0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0	0.75	----	< 88.0 or > 97.0	⁽¹⁾	< 91.0 or > 97.5	----
DENSITY																											
Pay Value	Lane Density Test Result (%)	Joint Density Test Result (%)																									
1.05	95.0-96.5	92.0-96.0																									
1.00	93.0-94.9	90.0-91.9																									
0.95	92.0-92.9 or 96.6-97.0	89.0-89.9 or 96.1-96.5																									
0.90	91.0-91.9 or 97.1-97.5	88.0-88.9 or 96.6-97.0																									
0.75	----	< 88.0 or > 97.0																									
⁽¹⁾	< 91.0 or > 97.5	----																									
SUBSECTION:	501.05.02 Ride Quality.																										
REVISION:	Remove the last sentence of the first paragraph.																										
SUBSECTION:	501.05.02 Ride Quality.																										
TABLE:	RIDE QUALITY ADJUSTMENT SCHEDULES.																										
REVISION:	Replace the Ride Quality Adjustment Schedule table with the following:																										
RIDE QUALITY ADJUSTMENT SCHEDULES																											
CATEGORY A PROJECTS		CATEGORY B PROJECTS																									
<u>IRI</u>	<u>Pay Value Adjustment⁽¹⁾</u>	<u>IRI</u>	<u>Pay Value Adjustment⁽¹⁾</u>																								
60 to 80	0	66 to 85	0																								
81	-\$30	86	-\$20																								
82	-\$70	87	-\$45																								
83	-\$120	88	-\$80																								
84	-\$180	89	-\$120																								
85	-\$250	90	-\$170																								
86	-\$330	91	-\$220																								
87	-\$420	92	-\$280																								
88	-\$520	93	-\$350																								
89	-\$630	94	-\$420																								
90	-\$750	95	-\$500																								
91 or higher	corrective work ⁽²⁾	96 or higher	corrective work ⁽³⁾																								
⁽¹⁾ Contractor may correct areas to prevent a negative pay value adjustment.																											
⁽²⁾ When it is in the best interest of the Department, a minimum pay value deduction of \$1200 per 0.1-lane-mile section may be applied in lieu of corrective work.																											
⁽³⁾ When it is in the best interest of the Department, a minimum pay value deduction of \$750 per 0.1-lane-mile section may be applied in lieu of corrective work.																											
SUBSECTION:	505.03.04 Detectable Warnings.																										
REVISION:	Replace the first sentence with the following:																										
Install detectable warning pavers at all sidewalk ramps and on all commercial entrances according to the Standard Drawings.																											

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SUBSECTION:	505.04.04 Detectable Warnings.								
REVISION:	Replace the paragraph with the following: The Department will measure the quantity in square feet. All retrofit applications for maintenance projects will require the removal of existing sidewalks to meet the requirements of the standard drawings applicable to the project. The cost associated with the removal of the existing sidewalk will be incidental to the detectable warnings bid item or incidental to the bid item for the construction of the concrete sidewalk unless otherwise noted.								
SUBSECTION:	505.05 PAYMENT.								
REVISION:	Add the following to the bid item table: <table><tr><td><u>Code</u></td><td><u>Pay Item</u></td><td><u>Pay Unit</u></td></tr><tr><td>23158ES505</td><td>Detectable Warnings</td><td>Square Foot</td></tr></table>			<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>	23158ES505	Detectable Warnings	Square Foot
<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>							
23158ES505	Detectable Warnings	Square Foot							
SUBSECTION:	509.01 DESCRIPTION.								
REVISION:	Replace the second paragraph with the following: The Department may allow the use of similar units that conform to the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 (TL-3) requirements and the typical features depicted by the Standard Drawings. Obtain the Engineers approval prior to use. Ensure the barrier wall shape, length, material, drain slot dimensions and locations typical features are met and the reported maximum deflection is 3 feet or less from the NCHRP 350 TL-3 for Test 3 – 11 (pickup truck impacting at 60 mph at a 25-degree angle.)								
SUBSECTION:	601.03.02 Concrete Producer Responsibilities.								
REVISION:	Add the following to the first paragraph: If a concrete plant becomes unqualified during a project and there are no other qualified plants in the region, the Department will provide qualified personnel to witness and ensure the producer follows the required specifications. The Department will assess the Contractor a \$100 per hour charge for this service.								
SUBSECTION:	606.02.11 Coarse Aggregate.								
REVISION:	Replace with the following: Conform to Section 805, size No. 8 or 9-M.								
SUBSECTION:	609.04.06 Joint Sealing.								
REVISION:	Replace Subsection 601.04 with the following: Subsection 606.04.08.								
SUBSECTION:	609.05 Payment.								
REVISION:	Replace the Pay Unit for Joint Sealing with the following: See Subsection 606.05.								

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SUBSECTION:	701.03.08 Testing of Pipe.		
REVISION:	Replace and rename the subsection with the following:		
	<p>701.03.08 Inspection of Pipe. The engineer will visually inspect all pipe. The Department will require camera/video inspection on a minimum of 50 percent of the linear feet of all installed pipe structures. Conduct camera/video inspection according to KM 64-114. The pipe to be installed under pavement will be selected first. If the total linear feet of pipe under pavement is less than 50 percent of the linear feet of all pipe installed, the Engineer will randomly select installations from the remaining pipe structures on the project to provide for the minimum inspection requirement. The pipe will be selected in complete runs (junction-junction or headwall-headwall) until the total linear feet of pipe to be inspected is at least 50 percent of the total linear feet of all installed pipe on the project.</p> <p>Unless the Engineer directs otherwise, schedule the inspections no sooner than 30 days after completing the installation and completion of earthwork to within 1 foot of the finished subgrade. When final surfacing conflicts with the 30-day minimum, conduct the inspections prior to placement of the final surface. The contractor must ensure that all pipe are free and clear of any debris so that a complete inspection is possible.</p> <p>Notify the Engineer immediately if distresses or locations of improper installation are discovered. When camera testing shows distresses or improper installation in the installed pipe, the Engineer may require additional sections to be tested. Provide the video and report to the Engineer when testing is complete in accordance with KM 64-114.</p> <p>Pipes that exhibit distress or signs of improper installation may necessitate repair or removal as the Engineer directs. These signs include, but are not limited to: deflection, cracking, joint separation, sagging or other interior damage. If corrugated metal or thermoplastic pipes exceed the deflection and installation thresholds indicated in the table below, provide the Department with an evaluation of each location conducted by a Professional Engineer addressing the severity of the deflection, structural integrity, environmental conditions, design service life, and an evaluation of the factor of safety using Section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD Bridge Design Specifications. Based on the evaluation, the Department may allow the pipe to remain in place at a reduced unit price as shown in the table below. Provide 5 business days for the Department to review the evaluation. When the pipe shows deflection of 10 percent or greater, remove and replace the pipe. When the camera/video or laser inspection results are called into question, the Department may require direct measurements or mandrel testing.</p> <p>The Cabinet may elect to conduct Quality Assurance verifications of any pipe inspections.</p>		
SUBSECTION:	701.04.07 Testing.		
REVISION:	Replace and rename the subsection with the following:		
	<p>701.04.07 Pipeline Video Inspection. The Department will measure the quantity in linear feet along the pipe invert of the structure inspected. When inspection above the specified 50 percent is performed due to a disagreement or suspicion of additional distresses and the Department is found in error, the Department will measure the quantity as Extra Work according to Subsection 104.03. However, if additional distresses or non-conformance is found, the Department will not measure the additional inspection for payment.</p>		
SUBSECTION:	701.05 PAYMENT.		
REVISION:	Add the following pay item to the list of pay items:		
	<u>Code</u> 23131ER701	<u>Pay Item</u> Pipeline Video Inspection	<u>Pay Unit</u> Linear Foot

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SUBSECTION:	701.05 PAYMENT																	
TABLE:	PIPE DEFLECTION DETERMINED BY CAMERA TESTING																	
REVISION:	Replace this table with the following table and note:																	
	<table><tr><th colspan="3">PIPE DEFLECTION</th></tr><tr><th>Amount of Deflection (%)</th><th colspan="2">Payment</th></tr><tr><td>0.0 to 5.0</td><td colspan="2">100% of the Unit Bid Price</td></tr><tr><td>5.1 to 9.9</td><td colspan="2">50% of the Unit Bid Price ⁽¹⁾</td></tr><tr><td>10 or greater</td><td colspan="2">Remove and Replace</td></tr></table>			PIPE DEFLECTION			Amount of Deflection (%)	Payment		0.0 to 5.0	100% of the Unit Bid Price		5.1 to 9.9	50% of the Unit Bid Price ⁽¹⁾		10 or greater	Remove and Replace	
PIPE DEFLECTION																		
Amount of Deflection (%)	Payment																	
0.0 to 5.0	100% of the Unit Bid Price																	
5.1 to 9.9	50% of the Unit Bid Price ⁽¹⁾																	
10 or greater	Remove and Replace																	
	⁽¹⁾ Provide Structural Analysis as indicated above. Based on the structural analysis, pipe may be allowed to remain in place at the reduced unit price.																	
SUBSECTION:	701.05 PAYMENT																	
TABLE:	PIPE DEFLECTION DETERMINED BY MANDREL TESTING																	
REVISION:	Delete this table.																	
SUBSECTION:	805.01 GENERAL.																	
REVISION:	Replace the second paragraph with the following:																	
	The Department’s List of Approved Materials includes the Aggregate Source List, the list of Class A and Class B Polish-Resistant Aggregate Sources, and the Concrete Restriction List.																	
SUBSECTION:	805.04 CONCRETE.																	
REVISION:	Replace the “AASHTO T 160” reference in first sentence of the third paragraph with “KM 64-629”																	
SUBSECTION:	805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.																	
TABLE:	AGGREGATE SIZE USE																	
PART:	Cement Concrete Structures and Incidental Construction																	
REVISION:	Replace “9-M for Waterproofing Overlays” with “8 or 9-M for Waterproofing Overlays”																	
SUBSECTION:	805.16 SAMPLING AND TESTING.																	
REVISION:	Replace the “AASHTO T 160” method with the “KM 64-629” method for the Concrete Beam Expansion Test.																	
	Replace the “ASTM D 3042” method with the “KM 64-625” method for Insoluble Residue.																	
SUBSECTION:	810.04.01 Coating Requirements.																	
REVISION:	Replace the “Subsection 806.07” references with “Subsection 806.06”																	
SUBSECTION:	837.03 APPROVAL.																	
REVISION:	Replace the last sentence with the following:																	
	The Department will sample and evaluate for approval each lot of thermoplastic material delivered for use per contract prior to installation of the thermoplastic material. Do not allow the installation of thermoplastic material until it has been approved by the Division of Materials. Allow the Department a minimum of 10 working days to evaluate and approve thermoplastic material.																	
SUBSECTION:	837.03.01 Composition.																	
REVISION:	COMPOSITION Table:																	
	Replace																	
	Lead Chromate	0.0 max.	4.0 min.															
	with																	
	Heavy Metals Content	Comply with 40 CFR 261																

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SUBSECTION: 805.15 GRADATION ACCEPTANCE OF NON-SPECIFICATION COARSE AGGREGATE.
REVISION: Replace the “SIZES OF COARSE AGGREGATES” table in with the following:

SIZES OF COARSE AGGREGATES																	
	Sieve	AMOUNTS FINER THAN EACH LABORATORY SIEVE (SQUARE OPENINGS) PERCENTAGE BY WEIGHT															
Aggregate Size	Nominal ⁽³⁾ Maximum Aggregate Size	4 inch	3 1/2 inch	3 inch	2 1/2 inch	2 inch	1 1/2 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 8	No. 16	No. 30	No. 100	No. 200
1	3 1/2 inch	100	90-100		25-60		0-15		0-5								
2	2 1/2 inch			100	90-100	35-70	0-15		0-5								
23	2 inch			100		40-90		0-15		0-5							
3	2 inch				100	90-100	35-70	0-15		0-5							
357	2 inch				100	95-100		35-70		10-30		0-5					
4	1 1/2 inch					100	90-100	20-55	0-15		0-5						
467	1 1/2 inch					100	95-100		35-70		10-30	0-5					
5	1 inch						100	90-100	20-55	0-10	0-5						
57	1 inch						100	95-100		25-60		0-10	0-5				
610	1 inch						100	85-100		40-75		15-40					
67	3/4 inch							100	90-100		20-55	0-10	0-5				
68	3/4 inch							100	90-100		30-65	5-25	0-10	0-5			
710	3/4 inch							100	80-100		30-75	0-30					
78	1/2 inch								100	90-100	40-75	5-25	0-10	0-5			
8	3/8 inch									100	85-100	10-30	0-10	0-5			
9-M	3/8 inch									100	75-100	0-25	0-5				
10 ⁽²⁾	No. 4										100	85-100				10-30	
11 ⁽²⁾	No. 4											40-90	10-40			0-5	
DENSE GRADED AGGREGATE ⁽¹⁾	3/4 inch							100	70-100		50-80	30-65			10-40		4-13
CRUSHED STONE BASE ⁽¹⁾	1 1/2 inch				100		90-100		60-95		30-70	15-55			5-20		0-8

⁽¹⁾ Gradation performed by wet sieve KM 64-620 or AASHTO T 11/T 27.

⁽²⁾ Sizes shown for convenience and are not to be considered as coarse aggregates.

⁽³⁾ Nominal Maximum Size is the largest sieve on the gradation table for an aggregate size on which any material may be retained.

Note: The Department will allow blending of same source/same type aggregate when precise procedures are used such as cold feed, belt, or equivalent and combining of sizes or types of aggregate using the weigh hopper at concrete plants or controlled feed belts at the pugmill to obtain designated sizes.

SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer.

2.0 MATERIALS.

2.1 General. Use LED or flip disk/LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Allow direct wiring for operation of the sign or arrow board from an external power source when desired.
- 7) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 8) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 9) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 10) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 11) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.

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- 12) Provide a photocell control to provide automatic dimming.
- 13) Allow an on-off flashing sequence at an adjustable rate.
- 14) Provide a sight to aim the message.
- 15) Provide a LED display color of approximately 590 nm amber.
- 16) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/	/MIN/SPEED/**MPH/
/KEEP/LEFT/⇐⇐⇐/	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/**/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.

Add other messages during the project when required by the Engineer.

2.3 Requirements for Flip-Disc Type Signs. Flip-disc type signs will have the following additional requirements:

- 1) Disc faces are fluorescent yellow on one side, and flat black on the reverse.
- 2) Discs are at least 3.5 square inches with a minimum character size of 5 discs horizontally by 7 discs vertically.
- 3) Discs are designed to operate without lubrication for at least 200 million operations.
- 4) Line change speed of 600 milliseconds or less.
- 5) When power is lost, the sign automatically becomes blank or displays a preprogrammed default message.

2.4 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.
- 2) Diesel Power Source. Ensure the following is provided for:
 - a) At least 24 spare bulbs available on the project for quick replacement of burned out bulbs.
 - b) Black light at both top and bottom of each line to illuminate discs for visibility at night or under adverse weather conditions, for flip disk signs.
 - c) Diesel generator and electric start assembly, including batteries and a fuel capacity adequate to provide at least 72 hours continuous operation without refueling.
 - d) Fuel gage.
 - e) Provide all other specific features, such as bulb size, protection from sun glare, and shock protection for electronics and bulbs, to the

satisfaction of the Engineer.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater. Unless the Contract specifies flip-disk signs, use Class I signs on interstates and parkways.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel or disk.

When the sign is not needed, move it outside the clear zone or where the Engineer directs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

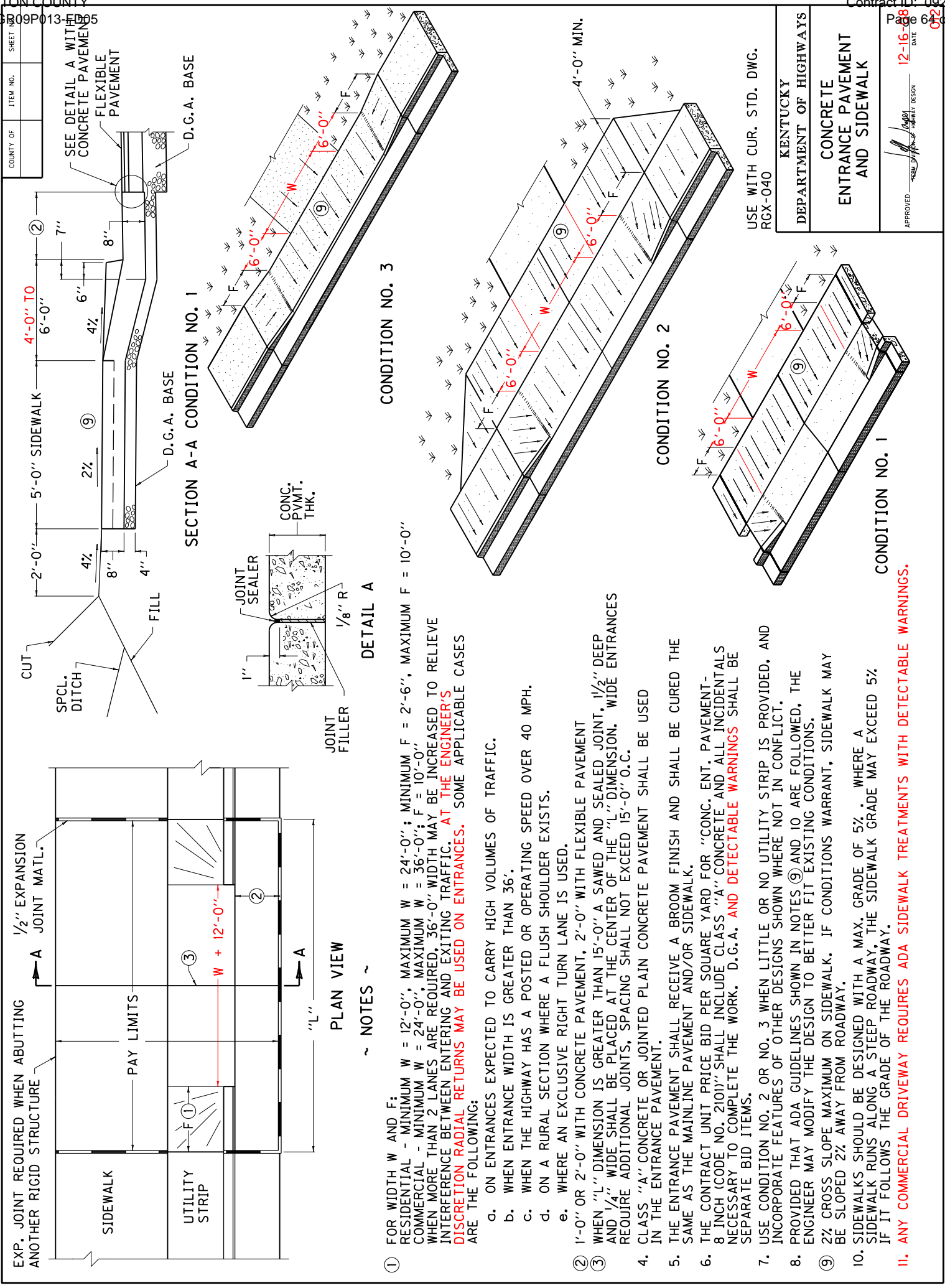
5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

January 1, 2008

STANDARD DRAWINGS THAT APPLY

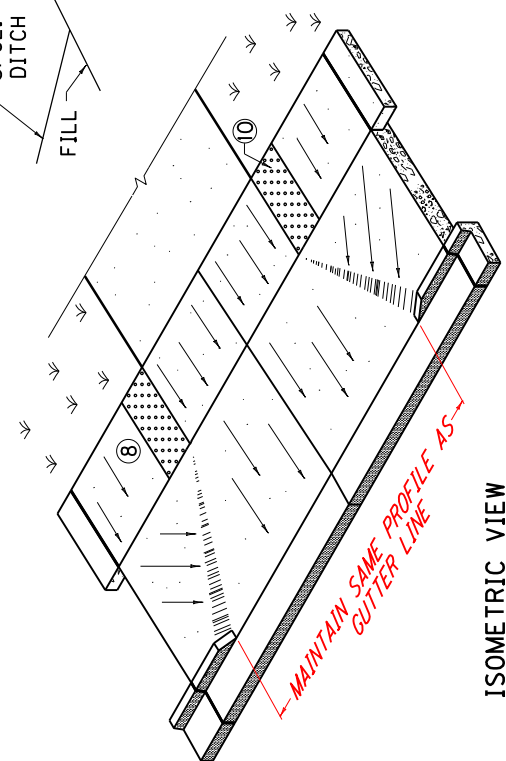
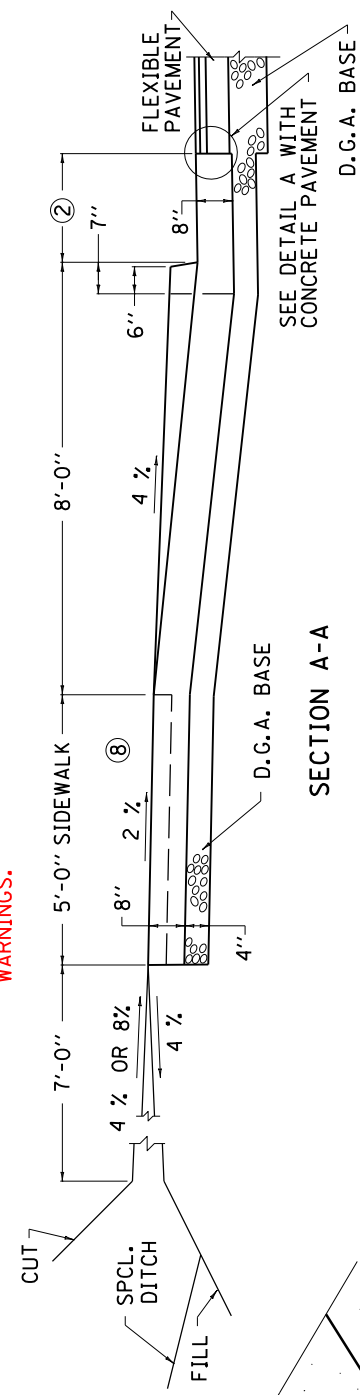
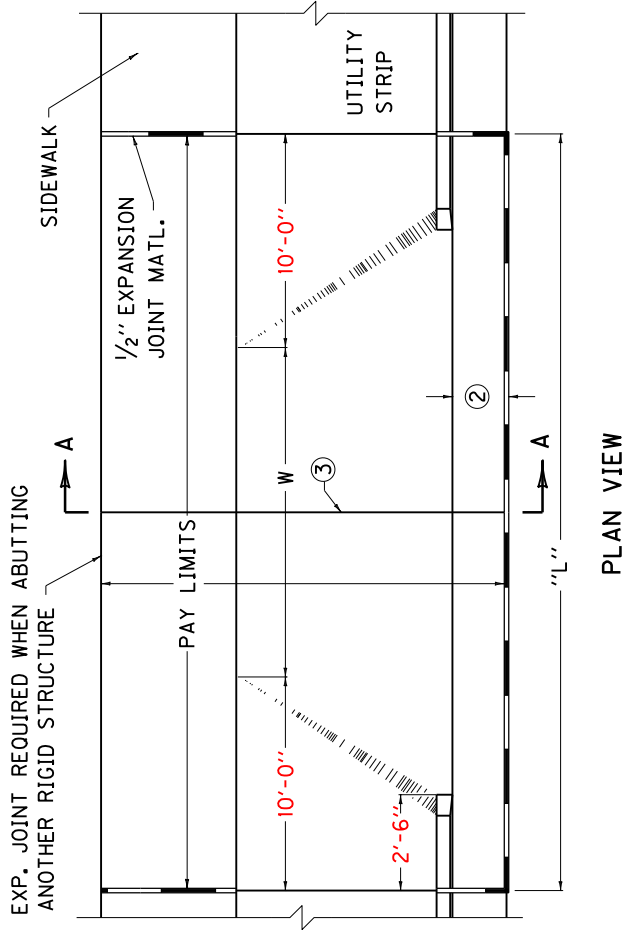
CURVE WIDENING AND SUPERELEVATION TRANSITIONS	RGS-001-06
MISCELLANEOUS STANDARDS PART 1	RGX-001-05
APPROACHES, ENTRANCES, AND MAIL BOX TURNOUT	RPM-110-05
LANE CLOSURE TWO-LANE HIGHWAY CASE I	TTC-100-01
LANE CLOSURE TWO-LANE HIGHWAY CASE II.....	TTC-105-01
SHOULDER CLOSURE.....	TTC-135-01
POST SPLICING DETAIL	TTD-110-01
PAVEMENT CONDITION WARNING SIGNS.....	TTD-125
MOBILE OPERATION FOR PAINT STRIPING CASE II	TTS-105-01



COUNTY OF	ITEM NO.	SHEET NO.

~ NOTES ~

1. **FOR WIDTH W:**
COMMERCIAL - MINIMUM W = 24'-0", MAXIMUM W = 36'-0"
WHEN MORE THAN 2 LANES ARE REQUIRED, 36'-0" WIDTH MAY BE INCREASED TO RELIEVE INTERFERENCE BETWEEN ENTERING AND EXITING TRAFFIC. **AT THE ENGINEER'S DISCRETION RADIAL RETURNS MAY BE USED ON ENTRANCES.** SOME APPLICABLE CASES ARE THE FOLLOWING:
 - a. ON ENTRANCES EXPECTED TO CARRY HIGH VOLUMES OF TRAFFIC.
 - b. WHEN ENTRANCE WIDTH IS GREATER THAN 36'.
 - c. WHEN THE HIGHWAY HAS A POSTED OR OPERATING SPEED OVER 40 MPH.
 - d. ON A RURAL SECTION WHERE A FLUSH SHOULDER EXISTS.
 - e. WHERE AN EXCLUSIVE RIGHT TURN LANE IS USED.
2. 1'-0" OR 2'-0" WITH CONCRETE PAVEMENT, 2'-0" WITH FLEXIBLE PAVEMENT.
3. WHEN "L" DIMENSION IS GREATER THAN 15'-0" A SAWED AND SEALED JOINT, 1 1/2" DEEP AND 1/4" WIDE SHALL BE PLACED AT THE CENTER OF THE "L" DIMENSION. WIDE ENTRANCES REQUIRE ADDITIONAL JOINTS, SPACING SHALL NOT EXCEED 15'-0" O.C.
4. CLASS "A" CONCRETE OR JOINTED PLAIN CONCRETE PAVEMENT SHALL BE USED IN THE ENTRANCE PAVEMENT.
5. THE ENTRANCE PAVEMENT SHALL RECEIVE A BROOM FINISH AND SHALL BE CURED THE SAME AS THE MAINLINE PAVEMENT AND/OR SIDEWALK.
6. THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR "CONC. ENT. PAVEMENT - 8 INCH (CODE NO. 2101)" SHALL INCLUDE CLASS "A" CONCRETE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK. D.G.A. AND **DETECTABLE WARNINGS** SHALL BE SEPARATE BID ITEMS.
7. PROVIDING THAT ADA GUIDELINES SHOWN IN NOTE ⑧ AND 9 ARE FOLLOWED, THE ENGINEER MAY MODIFY THE DESIGN TO BETTER FIT EXISTING CONDITIONS.
8. 2% CROSS SLOPE MAXIMUM ON SIDEWALK.
9. SIDEWALKS SHOULD BE DESIGNED WITH A MAX. GRADE OF FIVE PERCENT. WHERE A SIDEWALK RUNS ALONG A STEEP ROADWAY, THE SIDEWALK GRADE MAY EXCEED FIVE PERCENT IF IT FOLLOWS THE GRADE OF THE ROADWAY.
10. **COMMERCIAL DRIVEWAYS REQUIRE ADA SIDEWALK TREATMENTS WITH DETECTABLE WARNINGS.**

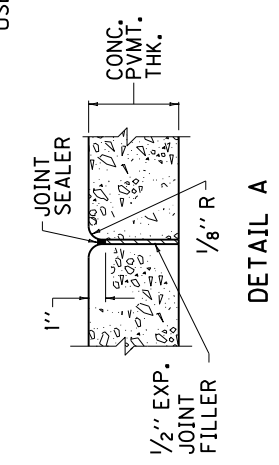


USE WITH CUR. STD. DWG. RGX-040

KENTUCKY
DEPARTMENT OF HIGHWAYS

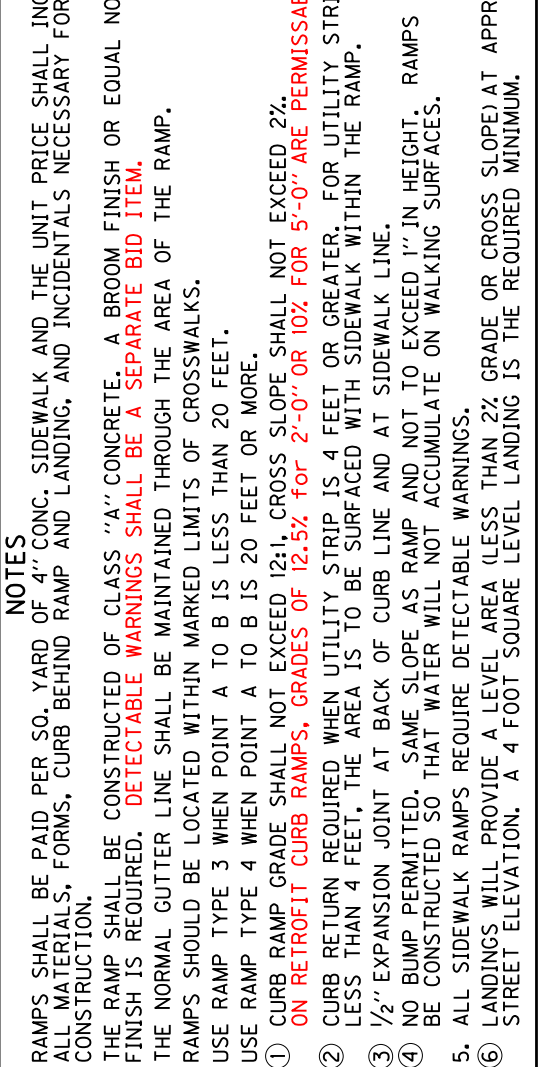
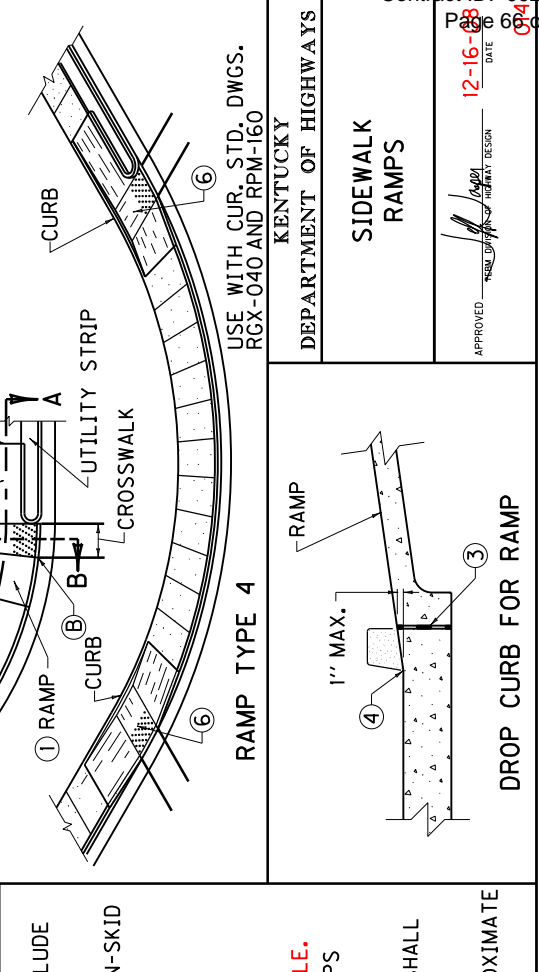
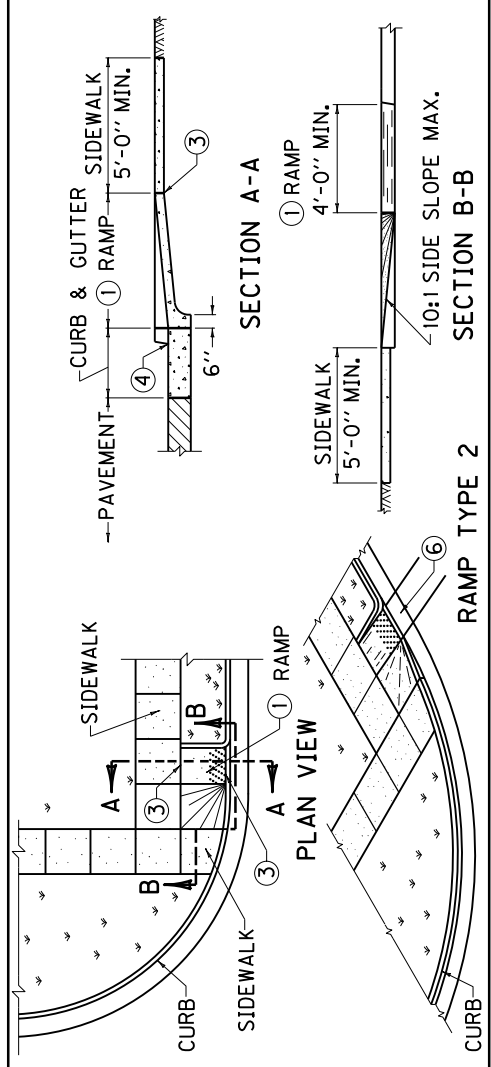
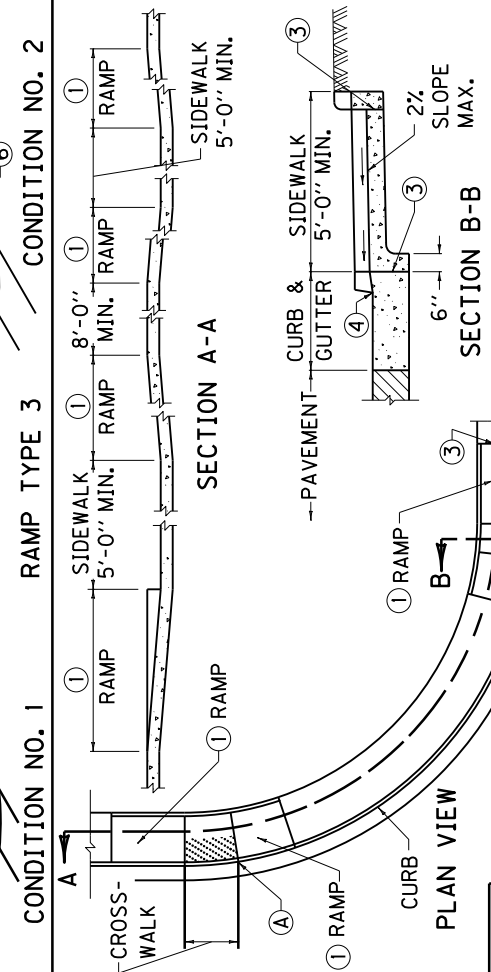
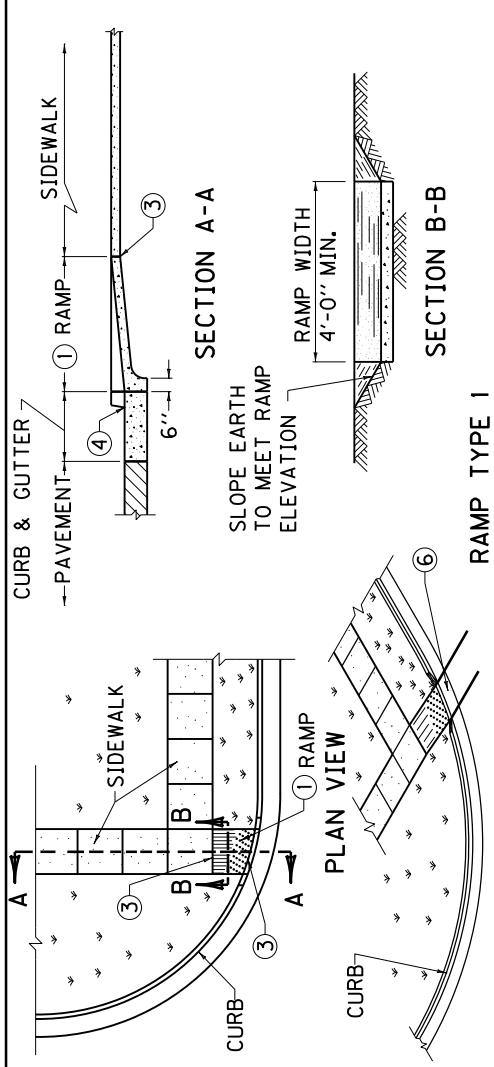
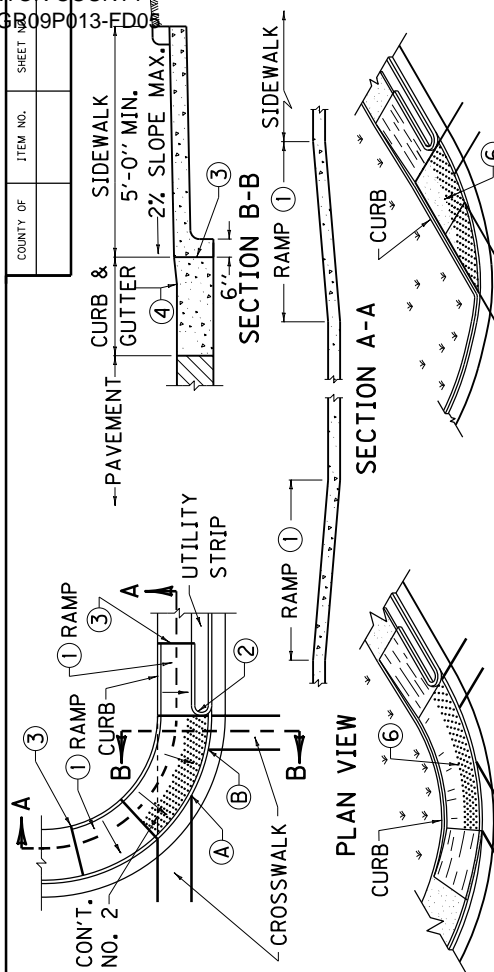
CONCRETE
ENTRANCE PAVEMENT
AND SIDEWALK

APPROVED: *[Signature]* DATE: 12-16-18



ISOMETRIC VIEW

DETAIL A



NOTES

- RAMPS SHALL BE PAID PER SQ. YARD OF 4" CONC. SIDEWALK AND THE UNIT PRICE SHALL INCLUDE ALL MATERIALS, FORMS, CURB BEHIND RAMP AND LANDING, AND INCIDENTALS NECESSARY FOR CONSTRUCTION.
- THE RAMP SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE. A BROOM FINISH OR EQUAL NON-SKID FINISH IS REQUIRED. **DETECTABLE WARNINGS SHALL BE A SEPARATE BID ITEM.**
- THE NORMAL GUTTER LINE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
- RAMPS SHOULD BE LOCATED WITHIN MARKED LIMITS OF CROWDINGS.
- USE RAMP TYPE 3 WHEN POINT A TO B IS LESS THAN 20 FEET.
- USE RAMP TYPE 4 WHEN POINT A TO B IS 20 FEET OR MORE.
- ① CURB RAMP GRADE SHALL NOT EXCEED 12%, CROSS SLOPE SHALL NOT EXCEED 2%.
- ② CURB RETURN REQUIRED WHEN UTILITY STRIP IS 4 FEET OR GREATER. FOR UTILITY STRIPS LESS THAN 4 FEET, THE AREA IS TO BE SURFACED WITH SIDEWALK WITHIN THE RAMP.
- ③ 1/2" EXPANSION JOINT AT BACK OF CURB LINE AND AT SIDEWALK LINE.
- ④ NO BUMP PERMITTED. SAME SLOPE AS RAMP AND NOT TO EXCEED 1" IN HEIGHT. RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.
- ⑤ ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.
- ⑥ LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.

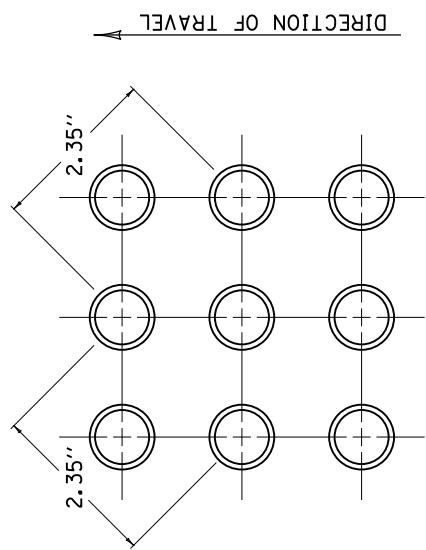
COUNTY OF	ITEM NO.	SHEET NO.

KENTUCKY
DEPARTMENT OF HIGHWAYS

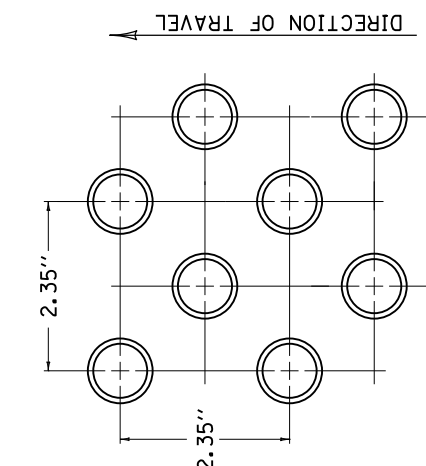
SIDEWALK
RAMPS

APPROVED _____
DATE 12-16-18
Contract ID: 092031
Page 6 of 84

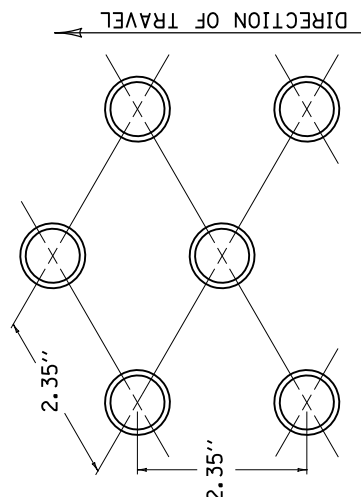
COUNTY OF	ITEM NO.	SHEET NO.



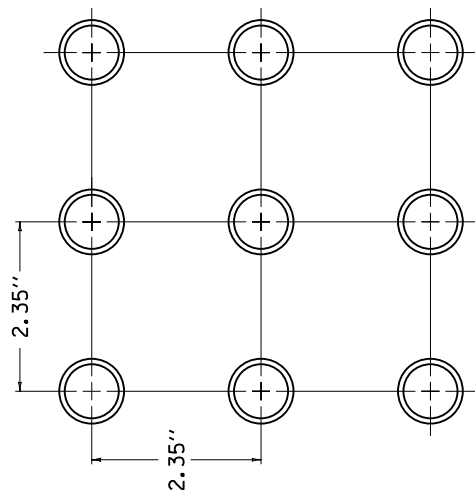
SQUARE PATTERN (PARALLEL ALIGNMENT)



SQUARE PATTERN (DIAGONAL ALIGNMENT)



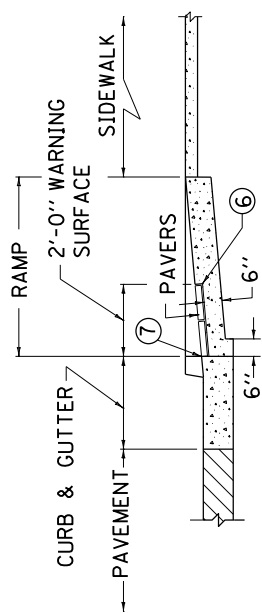
TRIANGULAR PATTERN



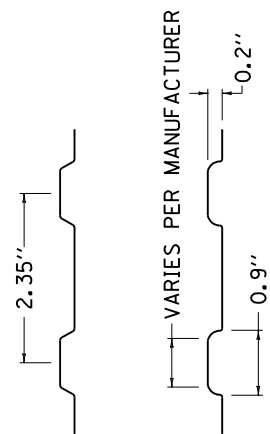
SQUARE PATTERN

NOTES

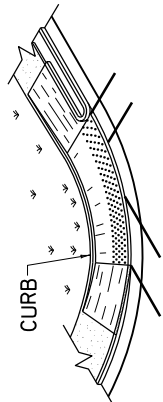
- 1. **BID ITEM AND UNIT TO BID.**
DETECTABLE WARNINGS - 50. FT.
LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.
- 2. ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.
- 3. **ANY COMMERCIAL DRIVEWAY REQUIRES ADA SIDEWALK TREATMENTS WITH DETECTABLE WARNINGS.**
- 4. PAVERS SHALL BE CONCRETE WITH A MINIMUM THICKNESS OF 2".
- 5. PAVERS SHALL BE A COLOR HOMOGENOUS THROUGHOUT THE PAVER, THAT COLOR SHALL CONTRAST VISUALLY WITH THE ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE DEPARTMENT WILL ALLOW EITHER YELLOW OR RED AS COLORS.
- 6. PAVERS TO BE SET IN MORTAR.
- 7. DETECTABLE WARNING SURFACE BEGINS AT BACK OF CURB.



TYPICAL DETECTABLE WARNING INSTALLATION



DETECTABLE WARNINGS PROFILE



TYPICAL PLACEMENT PARALLEL CURB RAMPS

USE WITH CUR. STD. DWGS.
RPM-160 AND RPM-170

KENTUCKY
DEPARTMENT OF HIGHWAYS

DETECTABLE
WARNINGS

APPROVED
DATE
12-16-08
013

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

- I. Application
- II. Nondiscrimination of Employees (KRS 344)
- III. Payment of Predetermined Minimum Wages
- IV. Statements and Payrolls

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY GENERAL ASSEMBLY TO PREVENT DISCRIMINATION IN EMPLOYMENT KRS CHAPTER 344 EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual

because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or

mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

	HIGHWAY BASIC HOURLY RATES	FRINGE BENEFIT PAYMENTS COMBINED
<u>CRAFTS:</u>		
Boone, Campbell, Kenton and Pendleton Counties:		
Bricklayers.	26.11	9.49
Carpenters and Piledrivermen.....	25.80	9.69
Divers.....	38.70	9.69
Millwrights	21.90	7.92
Cement Masons/		
Concrete Finisher.....	25.75	8.60
Electricians	26.11	12.72
Sound & Communication:		
Technician.....	20.45	6.95
Ironworkers:		
Reinforcing: Up to and including 30- mile radius of Hamilton County, Ohio Courthouse		
.....	25.65	16.00
Beyond 30- mile radius of Hamilton County, Ohio Courthouse		
.....	25.90	16.00
Structural.....	25.22	16.42
Fence Erector	22.70	16.42
Painters:		
(Heavy and Highway Bridges- Guardrails-Lightpoles-Striping):		
Bridge/Equipment Tender and/or		
Containment Builder	20.49	6.83
Brush and Roller	23.10	6.83
Elevated Tanks;		
Steeplejack Work; Bridge &		
Lead Abatement.....	24.10	6.83
Sandblasting and Water		
Blasting	23.85	6.83
Spray	23.60	6.83
Plumbers.....	28.39	14.30
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.		

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

LABORERS:

Pendleton County:

GROUP 1 - Aging and Curing of Concrete, Asbestos Abatement Worker, Asphalt Plant, Asphalt, Batch Truck Dump, Carpenter Tender, Cement Mason Tender, Cleaning Of Machines, Concrete, Demolition, Dredging, Drill Tender, Environmental -- Nuclear, Radiation, Toxic and Hazardous Waste - Level D, Flagperson, Grade Checker, Hand Digging and Hand Back Filling, Highway Marker Placer, Landscaping, Mesh Handler and Placer, Puddler, Railroad, Rip-Rap and Grouter, Right-Of-Way, Sign, Guardrail and Fence Installer, Signal Person, Sound Barrier Installer, Storm and Sanitary Sewer, Swamper, Truck Spotter and Dumper and Wrecking of Concrete Forms, General Cleanup.

BASE RATE..... 19.86
FRINGE BENEFITS..... 9.55

GROUP 2 - Batter Board Man (Sanitary and Storm Sewer), Brickmason Tender, Mortar Mixer Operator, Scaffold Builder, Burner and Welder, Bushhammer, Chain Saw Operator, Concrete Saw Operator, Deckhand Scow Man, Dry Cement Handler, Environmental - Nuclear, Radiation, Toxic and Hazardous Waste - Level C, Forklift Operator For Masonary, Form Setter, Green Concrete Cutting, Hand Operated Grouter and Grinder Machine Operator, Jackhammer, Pavement Breaker, Paving Joint Machine, Pipelayer, Plastic Pipe Fusion, Power Driven Georgia Buggy and Wheel Barrow, Power Post Hole Digger, Precast Manhole Setter, Walk-Behind Tamper, Walk-Behind Trencher, Sand Blaster, Concrete Chipper, Surface Grinder, Vibrator Operator and Wagon Driller.

BASE RATE..... 20.11
FRINGE BENEFITS..... 9.55

GROUP 3 - Asphalt Luteman and Raker, Gunnite Nozzleman, Gunnite Operator and Mixer, Grout Pump Operator, Side Rail Setter, Rail Paved Ditch, Screw Operator, Tunnel (free air) and Water Blaster.

BASE RATE..... 20.16
FRINGE BENEFITS..... 9.55

GROUP 4 - Caisson Worker (free air), Cement Finisher, Environmental - Nuclear, Radiation, Toxic and Hazardous Waste - Levels A and B, Miner and Driller (free air), Tunnel Blaster and Tunnel Mucker (free air), Directional & Horizontal Boring, Air Track Driller (all types), Powderman & Blaster, Troxler & Concrete Tester if Laborer is utilized.

BASE RATE..... 20.76
FRINGE BENEFITS..... 9.55

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

LABORERS: (continued)
Boone, Campbell and Kenton Counties:

Group 1
Asphalt Laborer, Carpenter Tender, Concrete Curing Applicator, Dump Man (Batch Truck), Guardrail And Fence Installer, Joint Setter, Laborer (Construction), Landscape Laborer, Highway Lighting Worker, Signalization Worker, Mesh Handlers And Placer, Right-Of-Way Laborer, Riprap Laborer And Grouter, Scaffold Erector, Seal Coating, Surface Treatment Or Road Mix Laborer, Sign Installer, Slurry Seal, Utility Man, Bridgeman, Handyman, Waterproofing Laborer, Flagperson, Hazardous Waste (Level D), Diver Tender, Zone Person & Traffic Control.

BASE RATE..... 25.02
FRINGE BENEFITS..... 6.80

GROUP 2
Skidsteer, Asphalt Raker, Concrete Puddler, Kettle Man (Pipeline), Machine Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Power Buggy or Power Wheelbarrow, Sheeting & Shoring Man, Surface Grinder Man, Plastic Fusing Machine Operator, Pug Mill Operator, & Vacuum Devices (wet or dry), Rodding Machine Operator, Diver, Screw Man or Paver, Screed Person, Water Blast, Hand Held Wand, Pumps 4" and under (gas, air or electric), Hazardous Waste (Level C), Air Track and Wagon Drill, Bottom Person, Cofferdam (below 25 ft. deep), Concrete Saw Person, cutting with Burning Torch, Form Setter, Hand Spiker (Railroad), Pipelayer, Tunnel Laborer (without air) & Caisson, Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning), Sandblaster Nozzleperson and Hazardous Waste (Level B).

BASE RATE..... 25.19
FRINGE BENEFITS..... 6.80

GROUP 3
Blaster, Mucker, Powder Person, Top Lander, Wrencher (Mechanical Joints and Utility Pipeline), Yarner, Hazardous Waste (Level A), Concrete Specialist, Concrete Crew in Tunnels (with air pressurized \$1.00 premium), Curb Setter & Cutter, Grade Checker, Utility Pipeline Tapper, Waterline, and Caulker.

BASE RATE..... 25.52
FRINGE BENEFITS..... 6.80

GROUP 4
Miner, Tunnel Laborer (with air-pressurized add \$1.00 to Base Rate) and Gunnite Nozzle Person.

BASE RATE..... 25.97
FRINGE BENEFITS..... 6.80

Signal person will receive the rate equal to the rate paid the labor classification for which he or she is signaling.

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

Truck Drivers

BASE RATE..... 15.85
FRINGE BENEFITS..... 4.60

Euclid Wagon, End Dump, Low-Boy, Heavy Duty Equipment, Tractor-Trailer Combination & Drag.

BASE RATE..... 16.29
FRINGE BENEFITS..... 4.60

OPERATING ENGINEERS:
Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Capacity); Concrete Pump; Crane (All Types, Including Boom Truck, Cherry Picker); Crane-Compact, Track or Rubber over 4,000 lbs. Capacity; Cranes-Self Erecting, Stationary, Track or Truck (All Configurations); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment (All Types); Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe (all types); Hoisting Engine on Shaft or Tunnel Work; Horizontal Directional Drill (over 500,000 ft. lbs. thrust); Hydraulic Gantry (Lifting System); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge); Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine (All Types); Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Rail Tamper (with auto lifting & aligning device); Refrigerating Machine (Freezer Operation); Rotary Drill, on Caisson work; Rough Terrain Fork Lift with Winch/Hoist; Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24” wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; & Wheel Excavator

BASE RATE..... 28.54
FRINGE BENEFITS 10.81

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

OPERATING ENGINEERS: (continued)

Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48”; Bulldozer; Endloader; Hydro Milling Machine; Kolman-type Loader (production type-Dirt); Lead Greaseman; Lighting & Traffic Signal Installation Equipment (includes all groups or classifications); Material Transfer Equipment (Shuttle Buggy) Asphalt; Pettibone-Rail Equipment; Power Grader; Power Scraper; Push Cat; Rotomill (all), Grinders & Planers of All types; Trench Machine (24” wide & under); & Vermeer type Concrete Saw

BASE RATE..... 28.42
FRINGE BENEFITS..... 10.81

A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drills (all types); Locomotive (narrow gauge); Material Hoist/Elevator; Mixer, Concrete (more than one bag capacity); Mixer, one bag capacity (Side Loader); Power Boiler (Over 15 lbs. Pressure) Pump Operator installing & operating Well Points; Pump (4” & over discharge); Roller, Asphalt; Rotovator (lime soil stabilizer); Switch & Tie Tampers (without lifting & aligning device); Utility Operator (Small equipment); & Welding Machines.

BASE RATE..... 27.38
FRINGE BENEFITS..... 10.81

Backfiller; Ballast Re-locator; Bars, Joint & Mesh Installing Machine; Batch Plant; Boring Machine Operator (48” or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway) except Masonry); Finishing Machine; Fireperson, Floating Equipment (all types); Fork Lift (highway); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Power Brush Burner; Power Form Handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Power Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); & Vibratory Compactor with Integral Power.

BASE RATE..... 26.20
FRINGE BENEFITS..... 10.81

TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES

OPERATING ENGINEERS: (continued)

Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (Asphalt); Generator; Masonry fork Lift; Inboard-Outboard Motor Boat Launch; Masonry Fork Lift; Oil Heater (asphalt plant); Oiler; Power Driven Heater; Power Sweeper & Scrubber; Pump (under 4” discharge); Signalperson; Tire Repairperson; & VAC/ALLS.

BASE RATE 20.74
FRINGE BENEFITS..... 10.81

Master Mechanic and Boom from
150 to 180.

BASE RATE 28.79
FRINGE BENEFITS..... 10.81

Boom from 180 and over.

BASE RATE 29.04
FRINGE BENEFITS..... 10.81

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

These rates are listed pursuant to Kentucky Determination No. CR-06-IV HWY dated July 10, 2007 and/or Federal Decision No. KY20080028 dated February 8, 2008, modification #0 dated February 8, 2008, modification #1 dated March 7, 2008, modification #2 dated May 2, 2008, modification #3 dated June 6, 2008, modification #4 dated July 4, 2008, modification #5 dated August 15, 2008, modification #6 dated September 5, 2008, modification #7 dated October, 3, 2008, modification #8 dated November 7, 2008, modification #9 dated December 5, 2008, modification #10 dated January 2, 2009 and modification #11 dated February 6, 2009.

No laborer, workman or mechanic shall be paid at a rate less than that of the General Laborer except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

**TRANSPORTATION CABINET
DIVISION OF CONSTRUCTION PROCUREMENT
COMPLIANCE SECTION
PROJECT WAGE RATES**

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Steve Waddle, Director
Division of Construction Procurement
Frankfort, Kentucky 40622

PART IV

INSURANCE

INSURANCE

The Contractor shall carry the following insurance in addition to the insurance required by law:

1. Contractor's Public Liability Insurance not less than \$100,000.00 for damages arising out of bodily injuries to or death to one person. Not less than \$300,000.00 for damages arising out of bodily injuries to or death to two or more persons.
2. Contractor's Property Damages Liability Insurance. Not less than \$100,000.00 for all damages arising out of injury or destruction of property in any one accident. Not less than \$300,000.00 for all damages during the policy period.
3. Contractor's Protective Public Liability and Property Damage Insurance. The contractor shall furnish evidence with respect to operations performed for him by subcontractors that he carries in his own behalf for the above stipulated amounts.
4. The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a. "policy contains no deductible clauses."
 - b. "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
5. WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

PART V

BID ITEMS

CONTRACT ID: 092031
COUNTY: KENTON
PROPOSAL: 059GR09P013-FD05

PAGE: 1
LETTING: 03/27/09
CALL NO: 409

LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
SECTION 0001 ROADWAY					
0010	00190	LEVELING & WEDGING PG64-22	828.000 TON		
0020	00301	CL2 ASPH SURF 0.38D PG64-22	2,635.000 TON		
0030	00307	CL2 ASPH SURF 0.38B PG64-22	2,500.000 TON		
0040	02562	SIGNS	1,470.000 SQFT		
0050	02650	MAINTAIN & CONTROL TRAFFIC KY 1072	(1.00) LS		
0060	02650	MAINTAIN & CONTROL TRAFFIC KY 16	(1.00) LS		
0070	02650	MAINTAIN & CONTROL TRAFFIC KY 1930	(1.00) LS		
0080	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EACH		
0090	02676	MOBILIZATION FOR MILL & TEXT KY 1072	(1.00) LS		
0100	02676	MOBILIZATION FOR MILL & TEXT KY 16	(1.00) LS		
0110	02676	MOBILIZATION FOR MILL & TEXT KY 1930	(1.00) LS		
0120	02677	ASPHALT PAVE MILLING & TEXTURING	710.000 TON		
0130	02720	SIDEWALK-4 IN CONCRETE	98.000 SQYD		
0140	02775	ARROW PANEL	2.000 EACH		
0150	04830	LOOP WIRE	1,265.000 LF		
0160	04895	LOOP SAW SLOT AND FILL	906.000 LF		
0170	06510	PAVE STRIPING-TEMP PAINT-4 IN	20,810.000 LF		
0180	06514	PAVE STRIPING-PERM PAINT-4 IN	139,650.000 LF		
0190	06562	PAVE MARKING-THERMO R 6 FT	24.000 EACH		
0200	06563	PAVE MARKING-R/R XBUCKS 16 IN	32.000 LF		

KENTON COUNTY
059GR09P013-FD05

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
FRANKFORT, KY 40622

CONTRACT ID: 092031
COUNTY: KENTON
PROPOSAL: 059GR09P013-FD05

PAGE: 2
LETTING: 03/27/09
CALL NO: 409

LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0210	06565	PAVE MARKING-THERMO X-WALK-6 IN	564.000 LF		
0220	06568	PAVE MARKING-THERMO STOP BAR-24IN	221.000 LF		
0230	06574	PAVE MARKING-THERMO CURV ARROW	7.000 EACH		
0240	06575	PAVE MARKING-THERMO COMB ARROW	2.000 EACH		
0250	06576	PAVE MARKING-THERMO ONLY	1.000 EACH		
0260	06600	REMOVE PAVEMENT MARKER TYPE V	20.000 EACH		
0270	10020NS	FUEL ADJUSTMENT	14,057.000 DOLL	1.00	14,057.00
0280	10030NS	ASPHALT ADJUSTMENT	24,773.000 DOLL	1.00	24,773.00
0290	22906ES403	CL3 ASPH SURF 0.38A PG64-22	4,320.000 TON		
0300	23158ES505	DETECTABLE WARNINGS	208.000 SQFT		
SECTION 0002 DEMOBLIZATION					
0310	02569	DEMOBILIZATION	LUMP		
		TOTAL BID			